


# **DC-8 SEVENTY SERIES**

## **MAINTENANCE MANUAL SUPPLEMENT**

**MCDONNELL DOUGLAS**   
**CORPORATION**

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DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

THIS MANUAL IS COMPLETE THRU REVISION 19  
DATED APR 1/88.

**INTRO**



**CHAPTER**

**5**

**TIME LIMITS/  
MAINTENANCE  
CHECKS**

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HIGHLIGHTS

TO ALL HOLDERS OF DC-8 SEVENTY SERIES MAINTENANCE MANUAL

CONCERNING: REVISION 19, CHAPTER 5, DATED: APR 1/88

5-CONT REVISED TO PROVIDE GENERIC TABLE OF CONTENTS.

5-IDENT REVISED TO PROVIDE GENERIC AIRPLANE IDENTIFICATION LIST.

5-57-0 M/P REVISED TO CORRECT SECTION NUMBER.

5-58-0 M/P REVISED TO INCORPORATE TEMPORARY REVISION 5-2. REMOVE IR 5-2 FROM MAINTENANCE MANUAL.

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Page 1



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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Numbers	Fuselage Numbers
DC8-71	45810	252
DC8-71	45811	262
DC8-71	45812	277
DC8-71	45813	284
DC8-71	45849	289
DC8-71	45891	305
DC8-71CF	45897	313
DC8-71CF	45898	320
DC8-71CF	45900	316
DC8-71CF	45902	294
DC8-71	45907	288
DC8-71	45913	325
DC8-71	45914	292
DC8-71	45915	295
DC8-73CF	45936	344
DC8-71CF	45938	331
DC8-71CF	45939	351
DC8-71	45941	317
DC8-71	45944	326
DC8-71	45945	337
DC8-71	45946	339
DC8-71	45947	341
DC8-71CF	45948	321
DC8-71CF	45949	329
DC8-71CF	45950	354
DC8-71CF	45952	338
DC8-71	45963	355
DC8-73CF	45966	393
DC8-73CF	45967	385
DC8-73CF	45968	389
DC8-71	45970	343
DC8-71	45971	356
DC8-71	45973	358
DC8-71	45974	368
DC8-71	45975	369
DC8-71	45976	372
DC8-71	45977	373
DC8-71	45978	381
DC8-71	45979	363

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	45983	350
DC8-73CF	45990	375
DC8-73CF	45991	380
DC8-71	45993	382
DC8-71	45994	387
DC8-71	45995	388
DC8-71	45996	397
DC8-71	45997	398
DC8-71	45998	399
DC8-73CF	46001	395
DC8-73CF	46002	394
DC8-73AF	46003	401
DC8-73AF	46004	403
DC8-73AF	46006	413
DC8-73AF	46007	422
DC8-73AF	46008	423
DC8-72CF	46013	427
DC8-71	46014	400
DC8-71	46018	420
DC8-73AF	46019	411
DC8-71	46029	425
DC8-71	46030	426
DC8-73	46033	431
DC8-71	46039	448
DC8-71	46040	449
DC8-72CF	46043	443
DC8-73AF	46044	432
DC8-73CF	46045	441
DC8-73CF	46046	444
DC8-73CF	46047	447
DC8-71	46048	450
DC8-73CF	46049	479
DC8-73CF	46051	440
DC8-73CF	46052	442
DC8-73	46053	446
DC8-71	46055	492
DC8-71	46056	495
DC8-73CF	46059	456
DC8-73CF	46062	486
DC8-73	46063	457

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Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	46064	459
DC8-71	46065	460
DC8-71	46066	462
DC8-72	46067	455
DC8-71	46072	477
DC8-73CF	46073	485
DC8-73AF	46074	468
DC8-73	46076	451
DC8-73AF	46080	466
DC8-72	46081	471
DC8-72	46082	458
DC8-72	46084	473
DC8-73CF	46086	478
DC8-73CF	46087	454
DC8-73CF	46089	501
DC8-73CF	46090	504
DC8-73CF	46091	519
DC8-73CF	46094	482
DC8-73	46095	497
DC8-71	46099	507
DC8-73	46100	502
DC8-73CF	46101	489
DC8-73CF	46103	483
DC8-73CF	46104	488
DC8-73CF	46106	490
DC8-73CF	46108	522
DC8-73CF	46109	493
DC8-73CF	46112	520
DC8-73CF	46117	525
DC8-73	46123	508
DC8-73	46124	511
DC8-73	46125	515
DC8-72CF	46130	542
DC8-73CF	46133	534
DC8-73CF	46135	531
DC8-73CF	46140	528
DC8-73CF	46149	538

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PYLON INSPECTION - MAINTENANCE PRACTICES

1. General

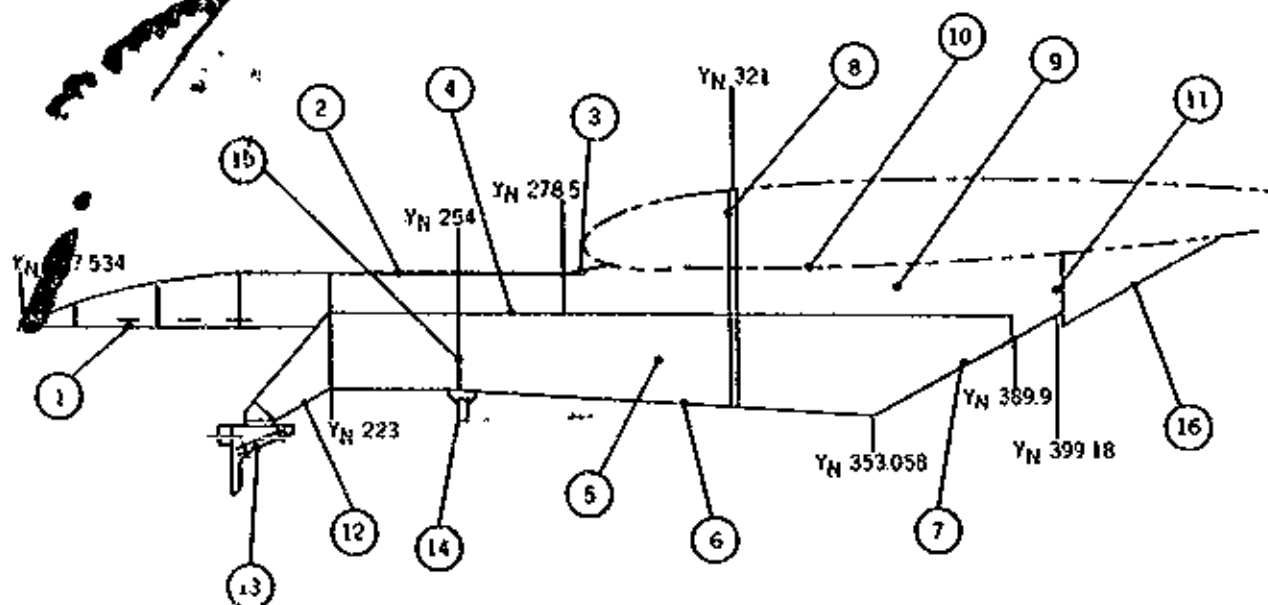
A. Each pylon requires an unscheduled inspection after the aircraft has been subjected to the following severe conditions:

- (1) Hard landing
- (2) Nacelle contact
- (3) Turbulence
- (4) Major engine failure (rotor seizure high imbalance, severe compressor stall, requiring engine removal severe engine vibration requiring engine removal, uncontained rotating part failure, i.e., rotor blade or disc penetration of case).

2. Inspection/Check

A. Figure 201 outlines the areas for inspection following severe conditions.

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IDENTIFICATION OF INSPECTION AREAS

HA2-8933

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Item No.	Area to be Inspected (Visual Inspection)	CONDITION			
		Hard Landing	Nacelle Contact	Turbulence	Massive Engine Failure
5.	<u>Side Skins</u> (Yn223 to Yn385) Open nacelle doors. Open access doors on RH and LH side as required.				
	Check skin for cracks, loose fasteners, and deep residual buckles. If deep buckles are found, check internal stiffeners in area of concern. Give special attention to RH side under adapter.	X	X	X	X
	Check access door frames for corner cracks and distortion.	X	X	X	X
	Check side skins for overheating.				X
	Check fan reverser hinges, brackets, and attachments.	X	X		X
6.	<u>Lower Firewall</u> (Yn223 to Yn353) Open nacelle doors. Remove lower fairing.				
	Inspect for damage and overheating.				X
	Inspect for distortion, cracks, buckles.	X	X	X	
	Inspect fuse bolt at Yn310 for gapping or looseness.	X	X		X

Pylon Inspection  
 Figure 201 (Sheet 3)

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Item No.	Area to be Inspected (Visual Inspection)	CONDITION			
		Hard Landing	Nacelle Contact	Turbulence	Massive Engine Failure
7.	<u>Keel</u> (Yn353 to Yn399) Remove trailing edge fairing.  Inspect fasteners and keel for local buckling and cracks.	X	X		
8.	<u>Front Spar Bulkhead</u> Remove pylon leading edge plates.  Check for loose or broken fasteners.	X	X	X	X
9.	<u>Fairing Adapter</u> Remove filler fairings.  Check for cracks, loose or missing fasteners just aft of Yn321 to Yn353, and fasteners at Yn384.942.  If fasteners on stiffeners are failed, check stiffeners for damage (Remove access doors as required).	X	X	X	X
10.	<u>Drag Angles (Inboard and Outboard)</u> Remove fillers, if required.  Check for cracks in bend radius just aft of Yn321.	X	X	X	X

Pylon Inspection  
 Figure 201 (Sheet 4)

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Item No.	Area to be Inspected (Visual Inspection)	CONDITION			
		Hard Landing	Nacelle Contact	Turbulence	Massive Engine Failure
11.	<u>Aft Pylon to Wing Attach Points (Yn399.18)</u> Open adapter access door.				
	Check integrity of attachments to wing. Also bulkhead to pylon fasteners.	X	X	X	X
12.	<u>Forward Engine Mount Truss</u> Open fan reverser doors.				
	Inspect structure for local buckling of flanges, cracks in firewall, loose or missing fasteners attaching truss to pylon at Yn223.	X	X	X	X
13.	<u>Forward Engine Mounts</u> (Grumman) Open fan reverser doors.				
	Inspect linkage, pins, etc., for signs of failure.	X	X	X	X
14.	<u>Aft Engine Mount (Yn254.524)</u> (Grumman) Open fan reverser doors.				
	Check mount, links, pins, etc., for structural damage.	X	X	X	X
	Check for overheating.				X
	Check attachments to pylon.	X	X		X

Pylon Inspection  
 Figure 201 (Sheet 5)



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Item No.	Area to be Inspected (Visual Inspection)	CONDITION			
		Hard Landing	Nacelle Contact	Turbulence	Massive Engine Failure
15.	<u>Bulkhead (Yn254.524)</u> Remove skin and door (Yn223 to Yn278.5)  Check bulkhead for buckles, cracks, broken fasteners.				X
16.	<u>Trailing Edge Fairing</u>  Check for structural integrity. Check fasteners.	X	X		

Pylon Inspection  
 Figure 201 (Sheet 6)

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Area to be Checked	Check for
A. Engines (Cont.)	
(5) Engine and CSD oil coolers	Coolers plugged with dust.
NOTE: Rise in oil temperatures may be indicative of plugged oil coolers.	
(6) Bleed air coolers	Coolers plugged with dust.
(7) Sensors	Plugged with dust.
B. Aircraft Structure	
(1) Windshields	Scratches, film of ash.  CAUTION: RAIN REPELLANT SHOULD NOT BE USED UNTIL WINDSHIELDS ARE WASHED.
(2) Metal surfaces	Film of ash. Check for surface corrosion after cleaning. Surfaces should be frequently washed.
(3) Ventilation openings	Accumulation of ash.
(4) Air conditioning system	Contamination of oil in air cycle machine and turbo compressors.  Ash dust in valves, heat exchangers, sense lines, water separators, other components.

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Area to be Checked	Check for
<b>B. Aircraft Structure (Cont.)</b>	
(5) Hydro-mechanical	
<b>NOTE:</b> All components exposed to ash should be cleaned and relubricated.	
(a) Pulleys	Abrasion and wear.
(b) Cables	Abrasion and wear, especially in areas that travel through bulkhead seals.
(c) Operating mechanisms	Excessive wear and abrading.
(d) Linkages and bearings, moving parts in wheelwells, thrust reversers	Excessive wear, dust accumulation, abrading.
(e) Slats, flaps, roller surfaces, any friction area	Excessive wear, dust accumulation, abrading.
(f) Hydraulic actuators and landing gear pistons	Excessive wear, dust accumulation, abrading, scratches.
(g) Hydraulic reservoirs	Contamination (contaminant level - Class 5). Replace as required.
(6) Pitot and static ports	Plugged with ash or dust.
(7) Cracks, crevices, troughs, wheelwells, any place where dust and ash can accumulate	Surface corrosion after area has been cleaned.
<b>C. Fuel System</b>	
(1) Fuel filters (more frequent checks after ash/dust encounters).	Contamination, clogging.

**CHAPTER**

**6**

**DIMENSIONS**

**AND**

**AREAS**

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C H A P T E R 6

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HIGHLIGHTS

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6-CONT REVISED TO PROVIDE NEW GENERIC TABLE OF CONTENTS.

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CHAPTER 6

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Numbers	Fuselage Numbers
DC8-71	45810	252
DC8-71	45811	262
DC8-71	45812	277
DC8-71	45813	284
DC8-71	45849	289
DC8-71	45891	305
DC8-71CF	45897	313
DC8-71CF	45898	320
DC8-71CF	45900	316
DC8-71CF	45902	294
DC8-71	45907	288
DC8-71	45913	325
DC8-71	45914	292
DC8-71	45915	295
DC8-73CF	45936	344
DC8-71CF	45938	331
DC8-71CF	45939	351
DC8-71	45941	317
DC8-71	45944	326
DC8-71	45945	337
DC8-71	45946	339
DC8-71	45947	341
DC8-71CF	45948	321
DC8-71CF	45949	329
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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
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DC8-73CF	45990	375
DC8-73CF	45991	380
DC8-71	45993	382
DC8-71	45994	387
DC8-71	45995	388
DC8-71	45996	397
DC8-71	45997	398
DC8-71	45998	399
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DC8-73AF	46003	401
DC8-73AF	46004	403
DC8-73AF	46006	413
DC8-73AF	46007	422
DC8-73AF	46008	423
DC8-72CF	46013	427
DC8-71	46014	400
DC8-71	46018	420
DC8-73AF	46019	411
DC8-71	46029	425
DC8-71	46030	426
DC8-73	46033	431
DC8-71	46039	440
DC8-71	46040	449
DC8-72CF	46043	443
DC8-73AF	46044	432
DC8-73CF	46045	441
DC8-73CF	46046	444
DC8-73CF	46047	447
DC8-71	46048	450
DC8-73CF	46049	479
DC8-73CF	46051	440
DC8-73CF	46052	442
DC8-73	46053	446
DC8-71	46055	492
DC8-71	46056	495
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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	46064	459
DC8-71	46065	460
DC8-71	46066	462
DC8-72	46067	455
DC8-71	46072	477
DC8-73CF	46073	485
DC8-73AF	46074	468
DC8-73	46076	451
DC8-73AF	46080	466
DC8-72	46081	471
DC8-72	46082	458
DC8-72	46084	473
DC8-73CF	46086	478
DC8-73CF	46087	454
DC8-73CF	46089	501
DC8-73CF	46090	504
DC8-73CF	46091	519
DC8-73CF	46094	482
DC8-73	46095	497
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DC8-73CF	46108	522
DC8-73CF	46109	493
DC8-73CF	46112	520
DC8-73CF	46117	525
DC8-73	46123	508
DC8-73	46124	511
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DC8-72CF	46130	542
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DIMENSIONS AND AREAS - DESCRIPTION AND OPERATION

1. General

- A. The following charts and illustrations give the dimensions of the airplane and the areas of the control surfaces.

B. Dimensions

Span (overall) . . . . . 148 feet 5 inches

Length (overall) . . . . . 157 feet 5 inches

Height (vertical stabilizer tip  
to ground) . . . . . \*43 feet 5 inches

Wing:

Root Chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 560.5) . . . . . 33 feet

Tip chord (theoretical) . . . . . 6 feet 6 inches

Dihedral (at trailing edge) . . . . . 6.5 degrees

Sweepback (25 percent chordline) . . . . . 30.6 degrees

Ailerons:

Span (each) . . . . . 24 feet

Flaps:

Span (each)  
(Douglas, double-slotted) . . . . . 33 feet 9.7 inches

Horizontal tail surfaces:

Span . . . . . 47 feet 6 inches

Root chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 1781.4) . . . . . 17 feet 8.5 inches

\*Based on 13.9 inches rolling radius for the nose gear and 17.9 inches rolling radius for the main gear with the airplane at operator's weight empty.

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Tip chord (theoretical) . . . . . 5 feet 10 inches

Sweepback (25 percent chordline) . . . . . 35 degrees

Incidence (variable) . . . . . -10 degrees to 2 degrees

Dihedral (at trailing edge) . . . . . 10 degrees

**Vertical tail surface:**

Span . . . . . 25 feet 11 inches

Root chord (theoretical,  
leading edge at fuselage  
station 1664.2) . . . . . 20 feet 10.7 inches

**Iis Chord (theoretical) . . . . . 6 feet 3 inches**

Sweepback (25 percent chordline) . . . . . 35 degrees

**Fuselage:**

Height of fuselage reference  
plane above ground at  
main gear . . . . . \*11 feet 10 inches

Angle of fuselage . . . . . \*1 degree (nosedown  
reference plane . . . . . with respect to ground  
line -- approximately)

Fuselage station at main gear strut . . . . . 921

Fuselage station at pressure	
bulkhead . . . . .	1766

Distance from fuselage centerline to  
centerline of:

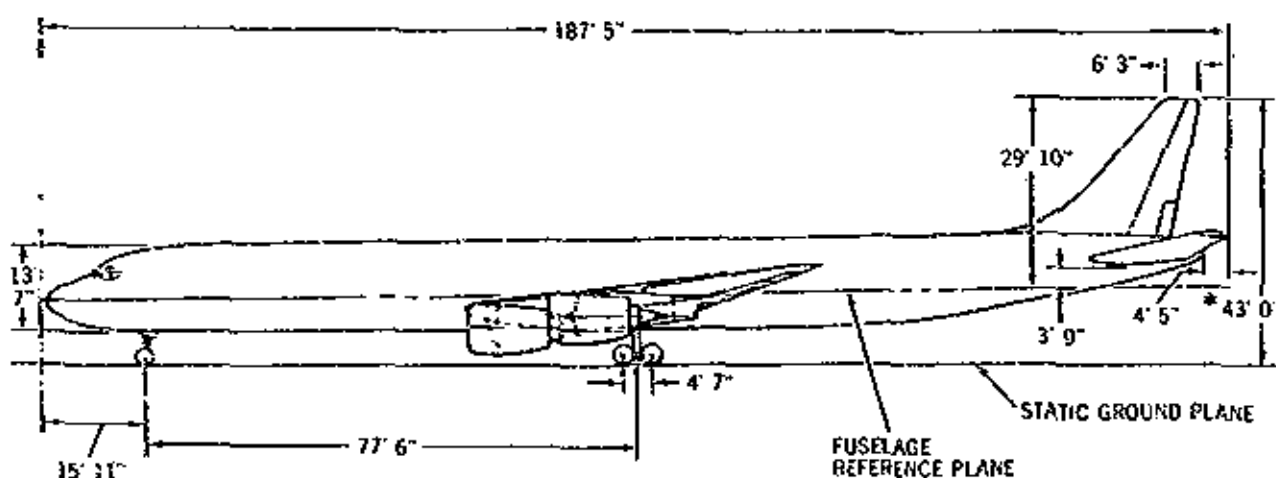
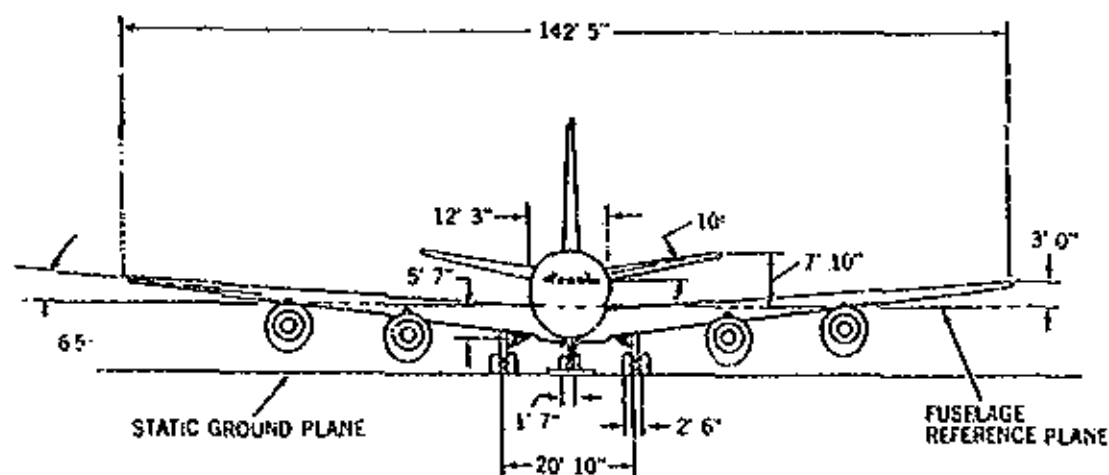
Inboard nacelle . . . . . 25 feet 9 inches

Outboard nacelle . . . . . 44 feet 7 inches

Thrust angle to fuselage  
reference plane . . . . . 2 degrees 49 minutes  
30 seconds (noseup)

\*Based on 13.9 inches rolling radius for the nose gear and 17.9 inches rolling radius for the main gear with the airplane at operator's weight empty.

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**NOTE**

DIMENSIONS GIVEN ARE  
 TO THE NEAREST INCH.

\* BASED ON 13.9 INCHES ROLLING RADIUS FOR THE NOSE  
 GEAR AND 17.9 INCHES ROLLING RADIUS FOR THE MAIN  
 GEAR WITH THE AIRPLANE AT OPERATOR'S WEIGHT EMPTY

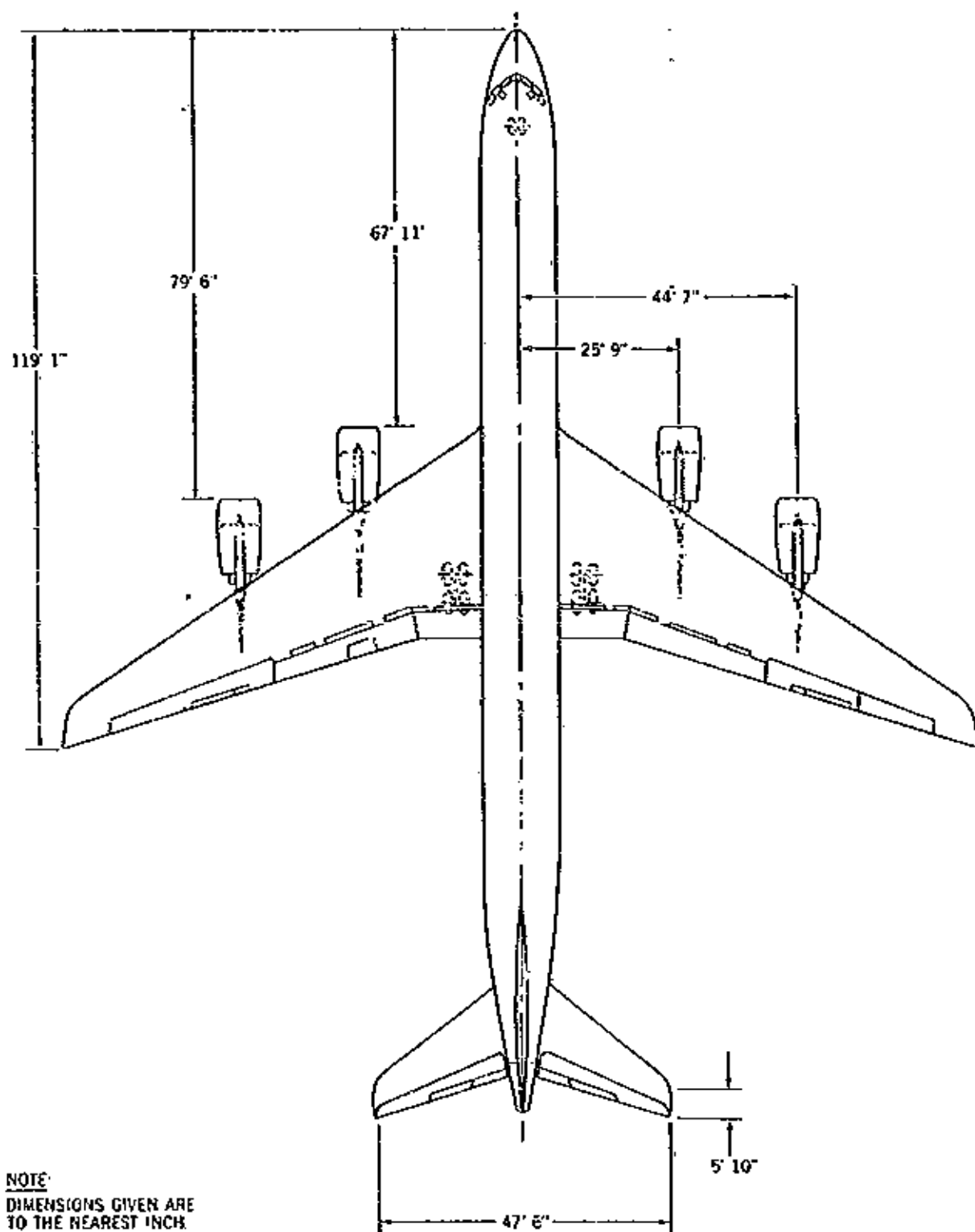
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Airplane Dimensions  
 Figure 1 (Sheet 1)

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Airplane Dimensions  
Figure 1 (Sheet 2)

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**Width:**

Seat level . . . . . 11 feet 6 inches  
 Floor level . . . . . 11 feet 4.7 inches  
 Window level (bottom) . . . . . 12 feet 3 inches

**Radius:**

Upper (constant section) . . . . . 6 feet 1.5 inches  
 Lower (constant section) . . . . . 5 feet 0.7 inches

Frame thickness (including  
 plating) . . . . . 3.55 inches

**Landing gear:**

Thread . . . . . 20 feet 10 inches  
 Wheelbase . . . . . 77 feet 6 inches

**C. Areas**

Wing (total, including  
 aileron, flaps, and  
 wing fuselage area) . . . . . 2,883.6 square feet

Flaps (total) . . . . . 456.9 square feet

Ailerons (total, both  
 sides aft of hinge  
 line and including  
 20.4 square feet of  
 tab area aft of the  
 tab hinge line) . . . . . 161.6 square feet

Horizontal tail surfaces  
 (total, including area  
 within fuselage) . . . . . 559.1 square feet

Horizontal stabilizer  
 (including area  
 within fuselage but  
 excluding elevators) . . . . . 391.2 square feet

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Elevator (total, both  
 sides, including  
 42.5 square feet  
 forward of hinge  
 line and 20.9  
 square feet of tab  
 area aft of the tab  
 hinge line) . . . . . 167.9 square feet

Vertical tail surface  
 (total: excluding  
 dorsal fin, but  
 including area  
 within fuselage) . . . . . 351.7 square feet

Fin (excluding  
 dorsal, rudder,  
 and overhang  
 rudder balance) . . . . . 222.9 square feet

Rudder (including  
 34.4 square feet  
 of balance area  
 forward of hinge  
 line and 8.11  
 square feet of  
 tab area aft of  
 tab hinge line) . . . . . 128.8 square feet

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MAINTENANCE MANUAL

DIMENSIONS AND AREAS - DESCRIPTION AND OPERATION

1. General

- A. The following charts and illustrations give the dimensions of the airplane and the areas of the control surfaces.

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Span (overall) . . . . . 148 feet 5 inches

Length (overall) . . . . . 157 feet 5 inches

Height (vertical stabilizer tip  
to ground) . . . . . \*43 feet 5 inches

Wing:

Root Chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 560.5) . . . . . 33 feet

Tip chord (theoretical) . . . . . 6 feet 6 inches

Dihedral (at trailing edge) . . . . . 6.5 degrees

Sweepback (25 percent chordline) . . . . . 30.6 degrees

Ailerons:

Span (each) . . . . . 24 feet

Flaps:

Span (each)  
(Douglas, double-slotted) . . . . . 33 feet 9.7 inches

Horizontal tail surfaces:

Span . . . . . 47 feet 6 inches

Root chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 1781.4) . . . . . 17 feet 8.5 inches

\*Based on 13.9 inches rolling radius for the nose gear and 17.9 inches rolling radius for the main gear with the airplane at operator's weight empty.

Tip chord (theoretical)	5 feet 10 inches
Sweepback (25 percent chordline)	35 degrees
Incidence (variable)	-10 degrees to 2 degrees
Dihedral (at trailing edge)	10 degrees

Span . . . . .	25 feet 11 inches
Root chord (theoretical, leading edge at fuselage station 1504.2) . . . . .	20 feet 10.7 inches
Tip Chord (theoretical) . . . . .	6 feet 3 inches
Sweepback (25 percent chordline) . . . . .	35 degrees

```

Height of fuselage reference
plane above ground at
main gear . . . . . *11 feet 11 inches

Angle of fuselage
reference plane . . . . . *1 degree (nosedown
with respect to ground
line -- approximately)

Fuselage station at main
gear strut . . . . . 921

Fuselage station at pressure
bulkhead . . . . . 1606

Distance from fuselage centerline to
centerline of:

Inboard nacelle . . . . . 25 feet 9 inches

Outboard nacelle . . . . . 44 feet 7 inches

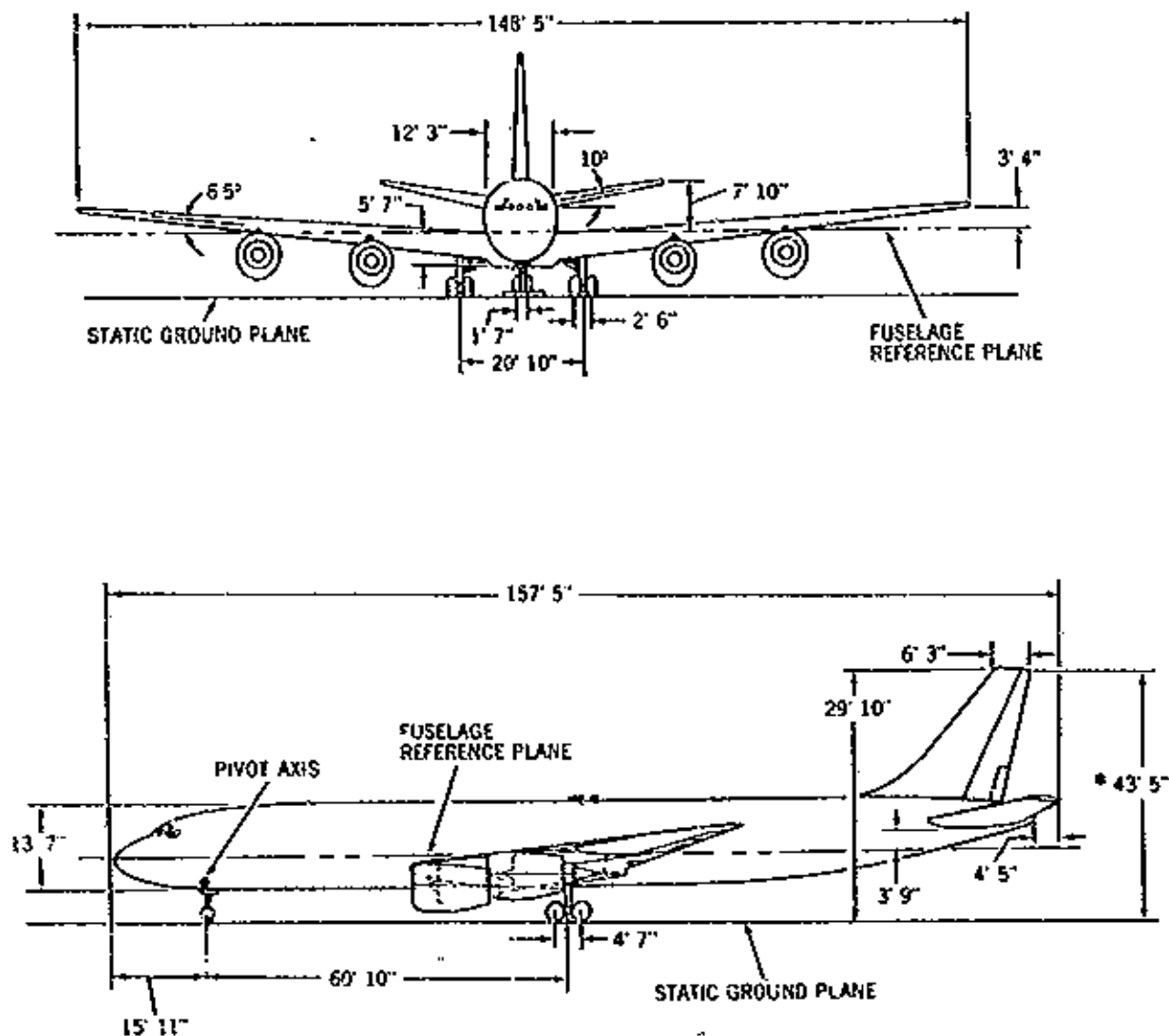
Thrust angle to fuselage
reference plane . . . . . 2 degrees 49 minutes
30 seconds (noseup)

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**NOTE**

DIMENSIONS GIVEN ARE  
 TO THE NEAREST INCH

\* BASED ON 13.9 INCHES ROLLING RADIUS FOR THE NOSE  
 GEAR AND 17.9 INCHES ROLLING RADIUS FOR THE MAIN  
 GEAR WITH THE AIRPLANE AT OPERATOR'S WEIGHT EMPTY

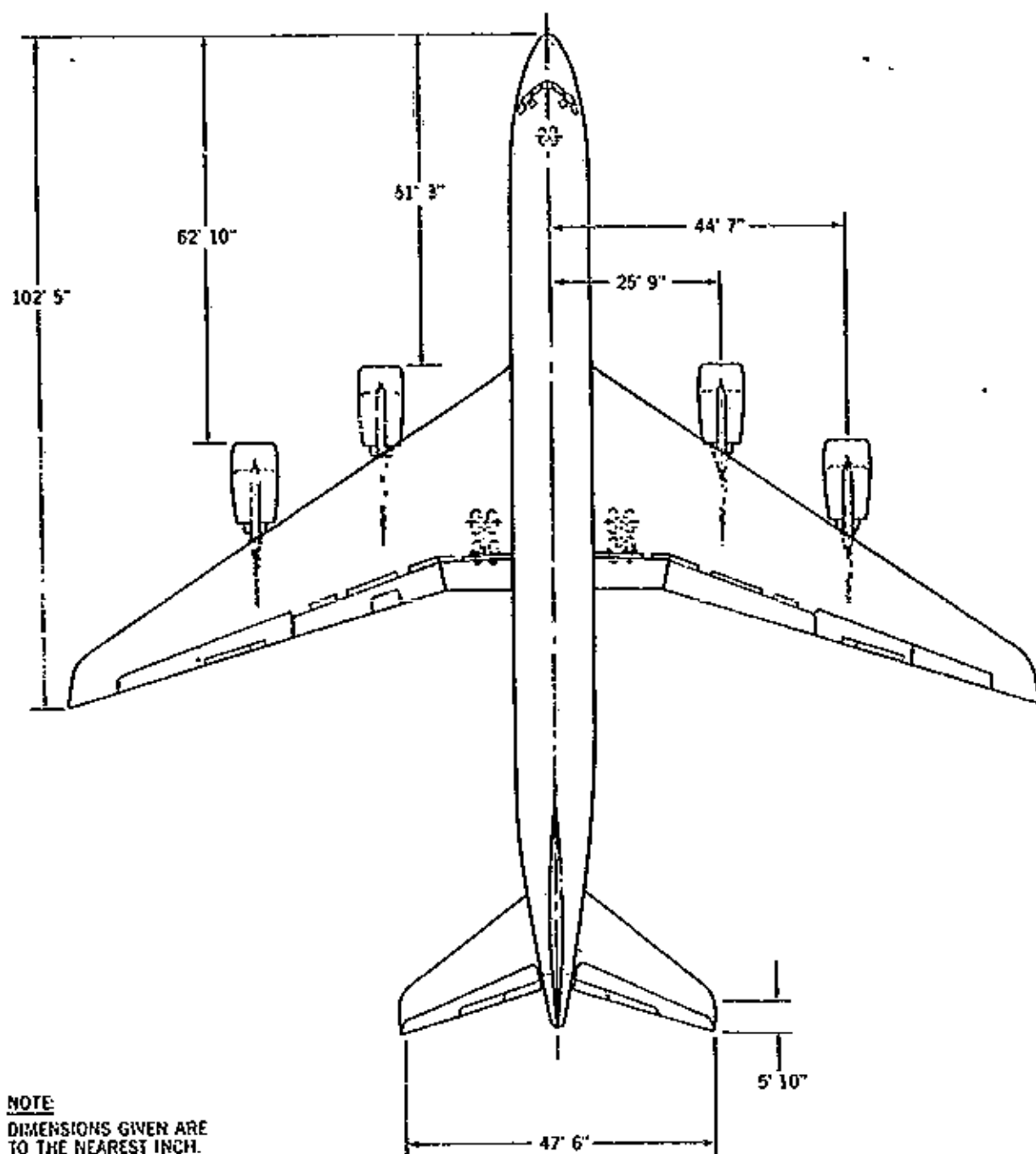
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Airplane Dimensions  
 Figure 1 (Sheet 1)

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Airplane Dimensions  
Figure 1 (Sheet 2)

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 MAINTENANCE MANUAL

Width:

Seat level . . . . . 11 feet 6 inches  
 Floor level . . . . . 11 feet 4.7 inches  
 Window level (bottom) . . . . . 12 feet 3 inches

Radius:

Upper (constant section) . . . . . 6 feet 1.5 inches  
 Lower (constant section) . . . . . 5 feet 8.7 inches

Frame thickness (including  
 plating) . . . . . 3.55 inches

Landing gear:

Thread . . . . . 20 feet 10 inches  
 Wheelbase . . . . . 60 feet 9 inches

C. Areas

Wing (total, including  
 aileron, flaps, and  
 wing fuselage area) . . . . . 2,926.8 square feet

Flaps (total) . . . . . 456.9 square feet

Ailerons (total, both  
 sides aft of hinge  
 line and including  
 20.4 square feet of  
 tab area aft of the  
 tab hinge line) . . . . . 161.6 square feet

Horizontal tail surfaces  
 (total, including area  
 within fuselage) . . . . . 559.1 square feet

Horizontal stabilizer  
 (including area  
 within fuselage but  
 excluding elevators) . . . . . 391.2 square feet

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Elevator (total, both  
 sides, including  
 42.5 square feet  
 forward of hinge  
 line and 20.9  
 square feet of tab  
 area aft of the tab  
 hinge line) . . . . . 167.9 square feet

Vertical tail surface  
 (total: excluding  
 dorsal fin, but  
 including area  
 within fuselage) . . . . . 351.7 square feet

Fin (excluding  
 dorsal, rudder,  
 and overhang  
 rudder balance) . . . . . 222.9 square feet

Rudder (including  
 34.4 square feet  
 of balance area  
 forward of hinge  
 line and 8.11  
 square feet of  
 tab area aft of  
 tab hinge line) . . . . . 128.8 square feet

DOUGLAS AIRCRAFT CO., INC.  
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MAINTENANCE MANUAL

DIMENSIONS AND AREAS - DESCRIPTION AND OPERATION

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B. Dimensions

Span (overall) . . . . . 148 feet 5 inches

Length (overall) . . . . . 187 feet 5 inches

Height (vertical stabilizer tip  
to ground) . . . . . 43 feet 5 inches

Wing:

Root Chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 560.5) . . . . . 33 feet

Tip chord (theoretical) . . . . . 6 feet 6 inches

Dihedral (at trailing edge) . . . . . 6.5 degrees

Sweepback (25 percent chordline) . . . . . 30 degrees

Ailerons:

Span (each) . . . . . 24 feet

Flaps:

Span (each  
(Douglas, double-slotted) . . . . . 33 feet 9.7 inches

Horizontal tail surfaces:

Span . . . . . 47 feet 6 inches

Root chord (theoretical, at  
fuselage centerline -  
leading edge at fuselage  
station 1741.4) . . . . . 17 feet 8.5 inches

\*Based on 13.9 inches rolling radius for the nose gear and 17.9 inches rolling radius for the main gear with the aircraft at operator's weight empty.

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Tip chord (theoretical) . . . . . 5 feet 10 inches  
 Sweepback (25 percent chordline) . . . . . 35 degrees  
 Incidence (variable) . . . . . -10 degrees to 2 degrees  
 Dihedral (at trailing edge) . . . . . 10 degrees

Vertical tail surface:

Span . . . . . 25 feet 11 inches  
 Root chord (theoretical,  
   leading edge at fuselage  
   station 1664.2) . . . . . 20 feet 10.7 inches  
 Tip Chord (theoretical) . . . . . 6 feet 3 inches  
 Sweepback (25 percent chordline) . . . . . 35 degrees

Fuselage:

Height of fuselage reference  
   plane above ground at  
   main gear . . . . . \*11 feet 11 inches

Angle of fuselage  
   reference plane . . . . . \*1 degree (nosedown  
   with respect to ground  
   line -- approximately)

Fuselage station at main  
   gear strut . . . . . 921

Fuselage station at pressure  
   bulkhead . . . . . 1766

Distance from fuselage centerline to  
   centerline of:

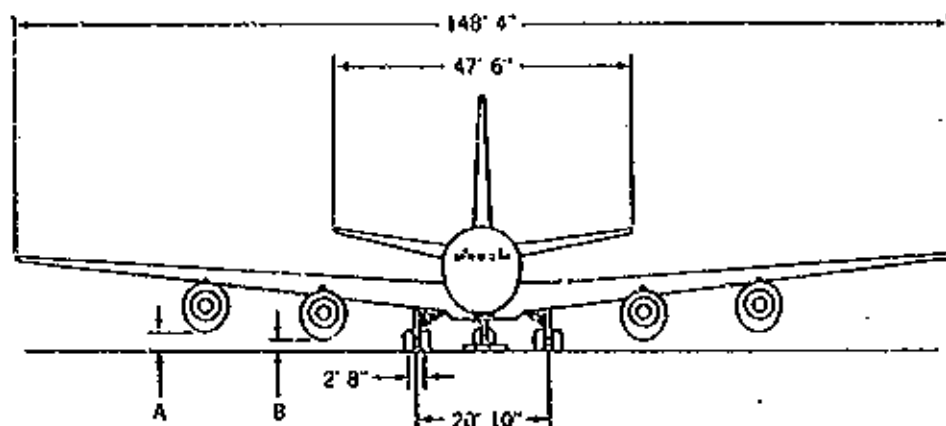
  Inboard nacelle . . . . . 25 feet 9 inches

  Outboard nacelle . . . . . 44 feet 7 inches

Thrust angle to fuselage  
   reference plane . . . . . 2 degrees 49 minutes  
   30 seconds (noseup)

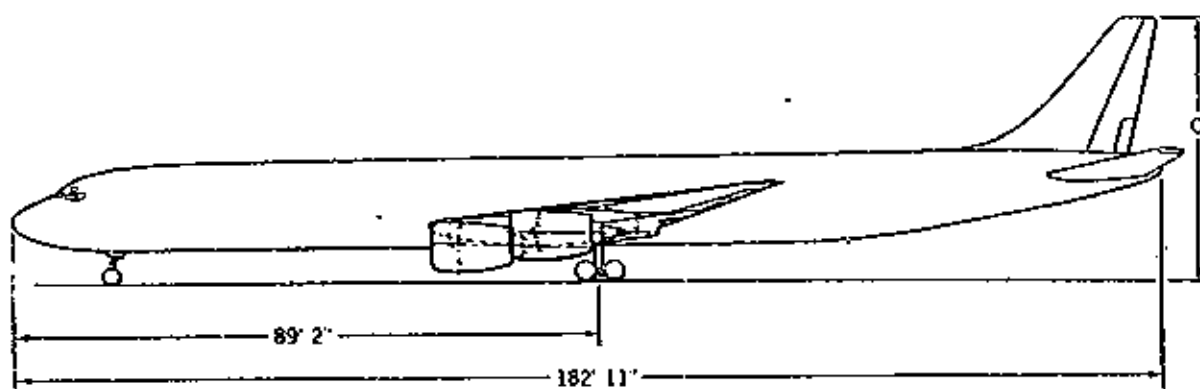
\*Based on 13.9 inches rolling radius for the nose gear and 17.9 inches  
 rolling radius for the main gear with the aircraft at operator's weight  
 empty.

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ITEM	DESCRIPTION	MINIMUM *
A	OUTBOARD ENGINE TO GROUND	42"
B	INBOARD ENGINE TO GROUND	23"
C	VERTICAL STABILIZER TIP TO GROUND	42' 5"

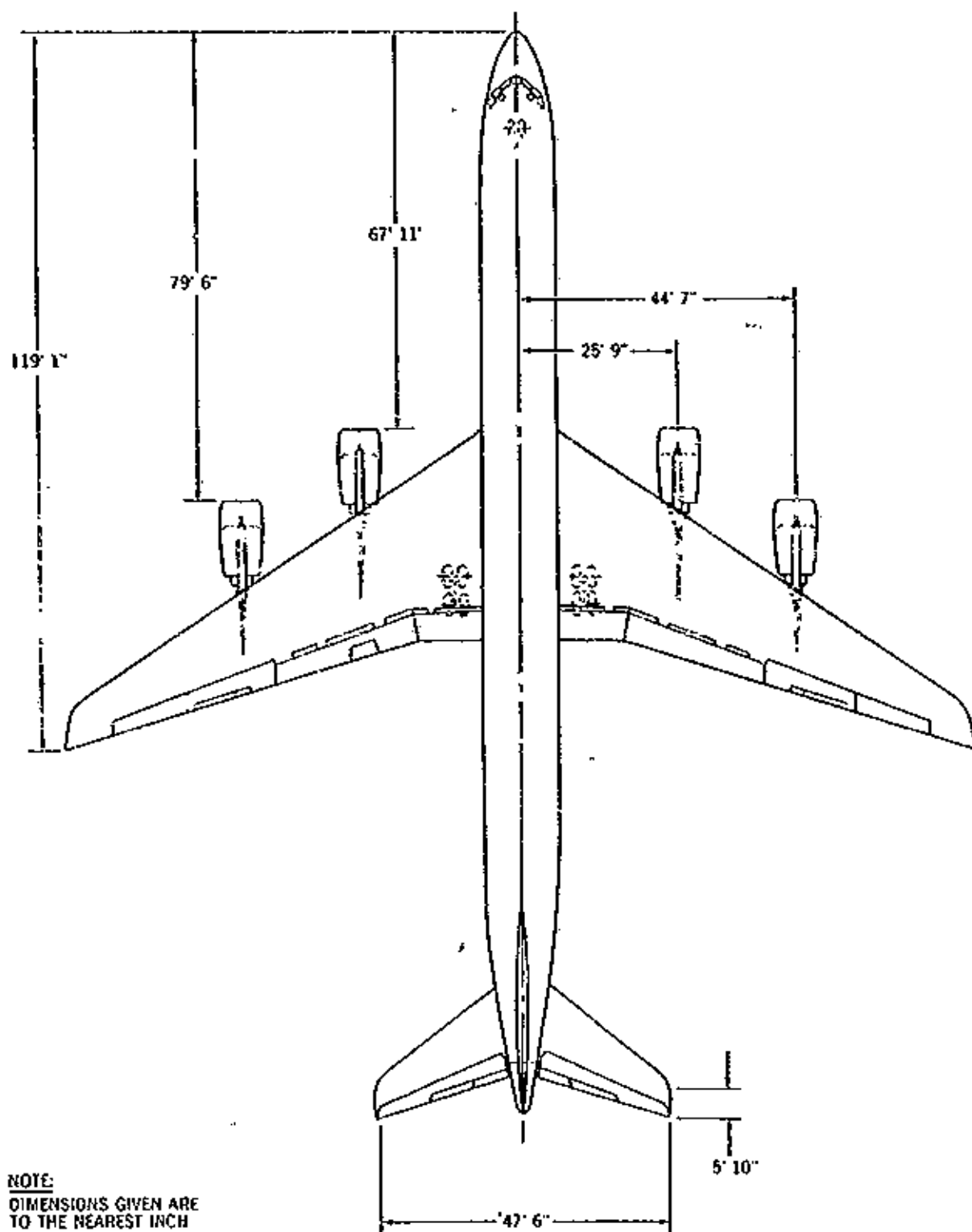
\* LANDING GEAR STRUTS COLLAPSED. TIRES FLAT



**NOTE:**  
 DIMENSIONS GIVEN ARE  
 TO THE NEAREST INCH.

HA2-8935

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 MAINTENANCE MANUAL



HAZ-8934



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**Width:**

Seat level . . . . . 11 feet 6 inches  
 Floor level . . . . . 11 feet 4.7 inches  
 Window level (bottom) . . . . . 12 feet 3 inches

**Radius:**

Upper (constant section) . . . . . 6 feet 1.5 inches  
 Lower (constant section) . . . . . 5 feet 8.7 inches

Frame thickness (including  
 plating) . . . . . 3.55 inches

**Landing gear:**

Thread . . . . . 20 feet 10 inches  
 Wheelbase . . . . . 77 feet 6 inches

**C. Areas**

Wing (total, including  
 aileron, flaps, and  
 wing fuselage area) . . . . . 2,926.6 square feet

Flaps (total) . . . . . 456.9 square feet

Ailerons (total, both  
 sides aft of hinge  
 line and including  
 20.4 square feet of  
 tab area aft of the  
 tab hinge line) . . . . . 161.6 square feet

Horizontal tail surfaces  
 (total, including area  
 within fuselage) . . . . . 559.1 square feet

Horizontal stabilizer  
 (including area  
 within fuselage but  
 excluding elevators) . . . . . 391.2 square feet

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Elevator (total, both  
sides, including  
42.5 square feet  
forward of hinge  
line and 20.9  
square feet of tab  
area aft of the tab  
hinge line) . . . . . 167.9 square feet

Vertical tail surface  
(total: excluding  
dorsal fin, but  
including area  
within fuselage) . . . . . 351.7 square feet

Fin (excluding  
dorsal, rudder,  
and overhang  
rudder balance) . . . . . 222.9 square feet

Rudder (including  
34.4 square feet  
of balance area  
forward of hinge  
line and 8.11  
square feet of  
tab area aft of  
tab hinge line) . . . . . 128.8 square feet

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MAINTENANCE MANUAL

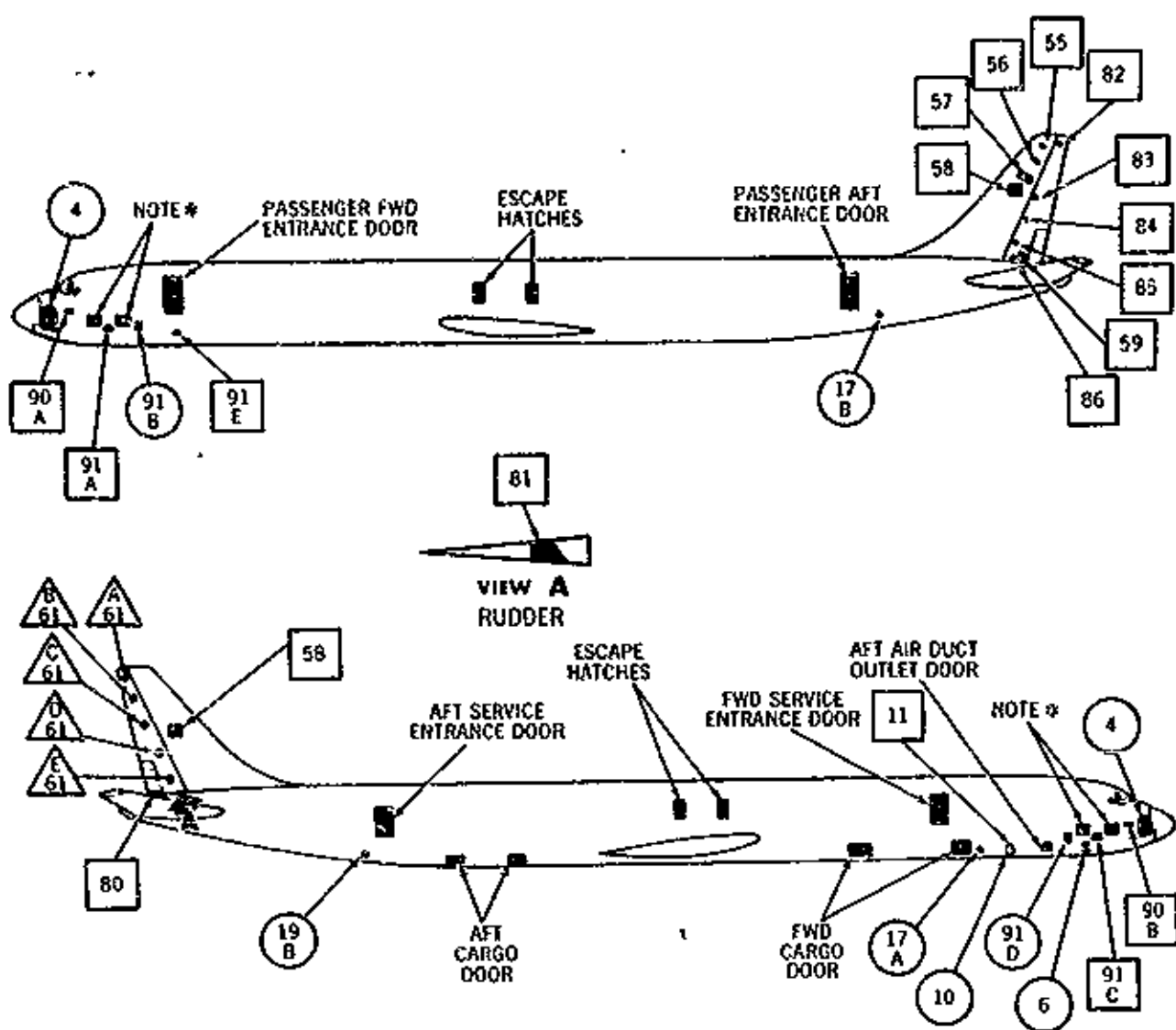
FUSELAGE AND STABILIZERS ACCESS DOORS - MAINTENANCE PRACTICES

1. General




- A. Exterior doors in the fuselage are numbered 1 to 99. Access doors in the vertical and horizontal stabilizers are considered fuselage access doors.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
4	Ground air axial fan, Ducting	24 x 31
6	External Ac Power Receptacle, Not In Use Light, Interphone Jacks, Call Switch, Wheel Well Light Switch, 60-Cycle Utility Outlet	6 x 6
7	External Power Fuses and Limiters, Utility Outlet Breakers	6 x 11
10	Ground Conditioned Air Inlet	12 x 12
11	Miscellaneous Equipment	25 x 25
17A	Waste Water Service	8 x 15
19B	Potable Water Service Panel	7 x 10
55	VHF-1 Antenna Access	4 x 7
56	VHF-1 Antenna Feedthrough	6 x 8
57	HF Antenna Coupler: Lighting Arrestor and Relay Assembly Service Interphone Outlet	18 x 28
58	VOR Antenna	22 x 25
59	Rudder Tab Linkage	6 x 7
61A	Rudder Hinge Eyebolt 6	2 Dia
61B	Rudder Hinge Eyebolt 5	2 Dia
61C	Rudder Hinge Eyebolt 4	2 Dia

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NOTE:  
 SYMBOLS SHOW HOW DOORS ARE OPENED

-  HAND (NO TOOLS REQUIRED)
-  QUICK OPENING (TOOLS REQUIRED)
-  SCREWS OR BOLTS (TOOLS REQUIRED)

\* NOTE:  
 HEAT EXCHANGER SHUTTER ASSY — NOT AN ACCESS DOOR

HA2-8978

Fuselage and Stabilizers, Left and Right  
 Figure 201

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
61D	Rudder Hinge Eyebolt 3	2 Dia
61E	Rudder Hinge Eyebolt 2	2 Dia
80	Rudder Tab Linkage	3 x 14
81	Rudder Tab Linkage	8 x 10
82	Rudder Tip	8 x 8
83	Rudder Damper	4 x 14
84	Rudder Damper	4 x 14
85	Rudder Damper	4 x 14
86	Rudder Mount Bolts	6 x 10
90A	Diverter Valve, Ducting	11 x 20
90B	Diverter Valve, Ducting	11 x 20
91A	Air Cycle Machine, Water Separator, Plenum Secondary Shutter Assembly Actuator, Ducting	11 x 14-1/2
91B	Catalytic Converter (Optional), Flow Control Valve, Pressure Regulator, Cross Feed Air Shutoff Valve	11 x 15
91C	Air Cycle Machine, Water Separator, Plenum Secondary, Ducting	11 x 14-1/2
91D	Catalytic Converter (Optional), Flow Control Valve, Pressure Regulator, Cross Feed Air Shutoff Valve	11 x 15
91E	Freon Exhaust Opening is closed off Left Side Only	9 x 13
1A	Windshield Rain Removal Shutoff Valve, Windshield Rain Removal Drain Valve	7 x 8
1B	Windshield Rain Removal Shutoff Valve, Windshield Rain Removal Drain Valve	7 x 8

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
1C	Windshield Rain Removal Shutoff Valve, Windshield Rain Removal Drain Valve	7 x 8
2	Ground Pneumatic Connection	8 x 8
3	Cabin Compressor 2 and 3	24 x 31
8	Nose Gear Brackets	6 x 7
9	Nose Gear Brackets	5 x 6

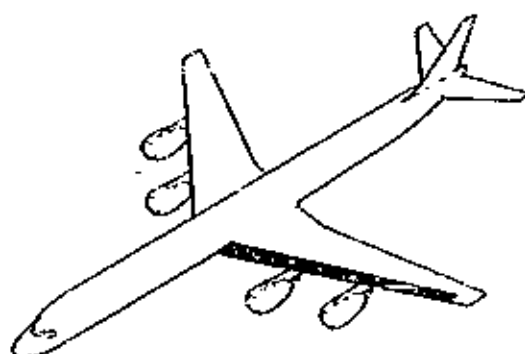
DOUGLAS AIRCRAFT CO., INC.  
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WING ACCESS DOORS - MAINTENANCE PRACTICES

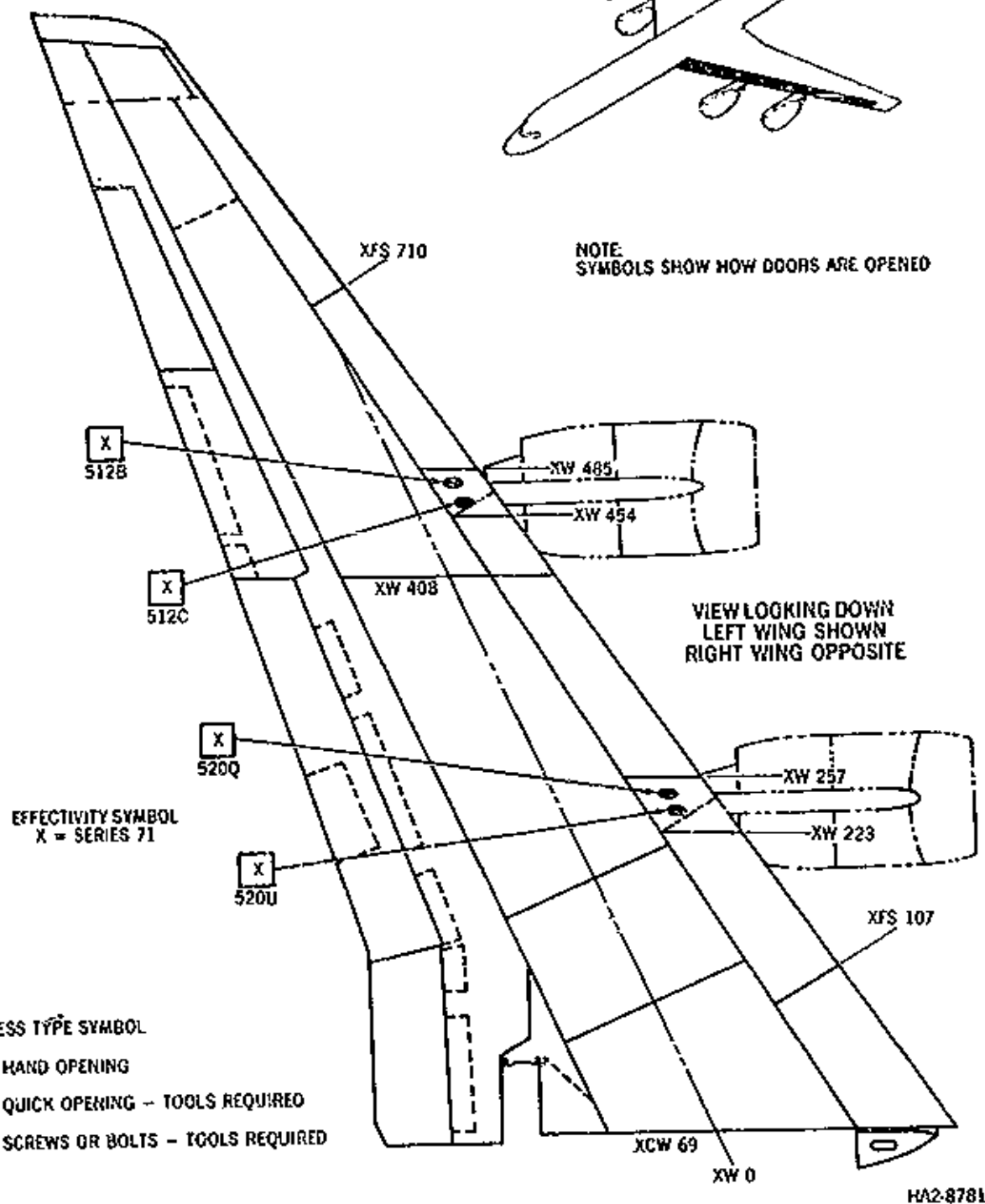
1. General

- A. This section provides wing leading edge access door number and location for series 71, 72, and 73 aircraft (see Figures 201 and 202).

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NOTE:  
 SYMBOLS SHOW HOW DOORS ARE OPENED



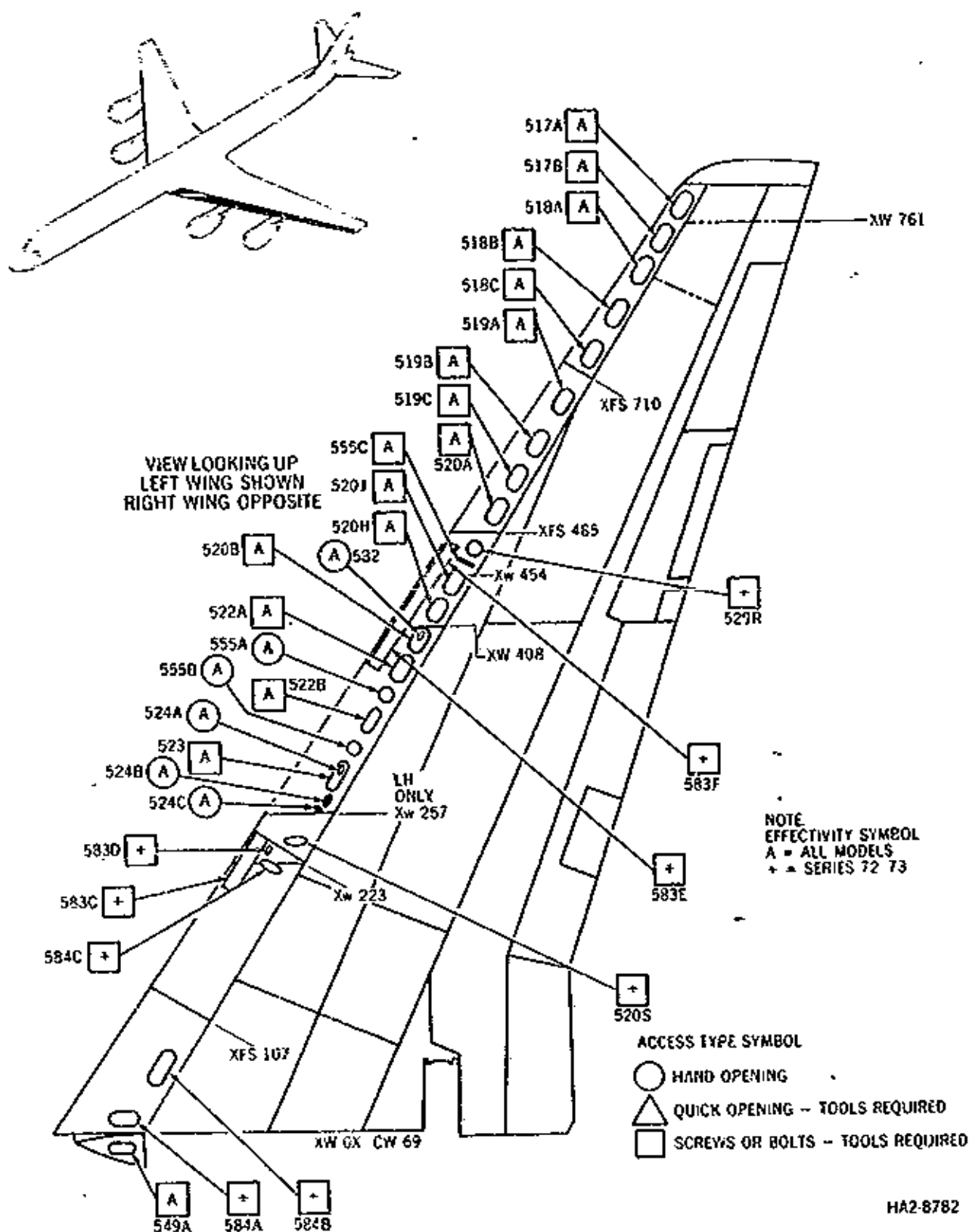
Wing Leading Edge Access Doors -- Upper Surface  
 Figure 201



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MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
512B	Foot Stool, "T" Doubler, Upper and Lower Spar Cap	6 x 7
512C	Foot Stool, "I" Doubler, Upper and Lower Spar Cap	6 x 7
520Q	Foot Stool, "I" Doubler, Upper and Lower Spar Cap	6 x 7
520U	Foot Stool, "T" Doubler, Upper and Lower Spar Cap	6 x 7

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Wing Leading Edge Access Doors--Lower Surface  
 Figure 202

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 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
517A	Wiring	5 1/2 x 9 1/2
517B	Wiring	5 1/2 x 9 1/2
518A	Wiring De-icing Valve No. 1, Outer Vent Scoop, Anti-Icing Valve	5 1/2 x 9 1/2
518B	Wing Leading Edge	5 1/2 x 9 1/2
518C	Wing Leading Edge	5 1/2 x 9 1/2
519A	Wing De-Icing Valve No. 3	8 x 16
519B	Alternate Tank No.4, Fuel Tank Selector Valve, Fuel Supply Check Valve, Fuel Tank Inlet Check Valve, Alternate Tanks No. 1 and 4; Pressure Refuel Test Panel, Fuel Crossfeed Valve	8 x 16
519C	Wing De-icing Valve No. 5	8 x 16
520A	Alternate Tank No. 1: Electrically Operated Fuel Shutoff Valve. Alternate Tank No 4 Electrically Operated Fuel Shutoff Valve.	9 1/2 x 21 1/2
520B	Main Tanks No. 1 and 4, Electric Fuel Shutoff Valve, Fuel Check Valve, Fuel Level Control Valve, Fuel Level Check Valve.	9 1/2 x 21 1/2
520H	Alternate Tank No. 1: Fuel Inlet Check Valve, Fuel Level Control Valve, Fuel Tank Selector Valve, Fuel Supply Check Valve.	12 x 16
520J	Wing Slot Mechanism; Switch, Wing Slot	12 x 16
*520R	Footstool, "I" Doubler, Lower Spar Cap	5 x 6
*520S	Footstool, "I" Doubler, Lower Spar Cap	5 1/2 x 5 1/2
522A	Main Tank No. 1, Pressure Refuel Test Panel De-icing Valve No. 7	9 1/2 x 21 1/2
522B	Wing De-icing Valves No.2 and 4, Fire Extinguishing Agent, Container Directional Valve, Reservoir Feed Pump Pressure Switch	9 1/2 x 21 1/2

\* With Service Bulletin 53-83 installed

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
523	Fire Extinguishing Agent Container: Hydraulic Fire Shutoff Valve.	9 1/2 x 21 1/2
524A	Fire Extinguishing Agent Container Pressure Gauge	3 x 4
524B	Fire Extinguishing Agent Container Pressure Gauge	3 x 4
524C	Fire Extinguishing Agent Container Pressure Gauge (Left Wing Only)	1 3/4 Dia
549	Center Wing Auxiliary Tank (Left Wing); Electrically Operated Fuel Tank Fill Valve, Fuel Level Control Valve, Forward Auxiliary Tank (Right Wing); Electrically Operated Fuel Tank Fill Valve, Fuel Level Control Valve, Fuel Tank Inlet Check Valve	12 x 24
555A	Fuel Pressure Fill Adapter	6 Dia
555B	Fuel Pressure Fill Adapter	6 Dia
555C	Wing Slot Adjustment (Standard Leading Edge Only)	6 Dia
<b>NOTE:</b> Access to the following leading edge tank doors is through the indicated external doors.		
582	Leading Edge (Blowout Door)	11 x 16
583C	Slot Mechanism Inboard	35 x 3
583D	Slot Mechanism Inboard	7 x 3
583E	Slot Mechanism Outboard	89 x 3
583F	Slot Mechanism Outboard	6 x 3
584A	Wing Inboard Leading edge, Expanded Range 10 Tank (See NOTE)	9 1/2 x 21 1/2
584B	Tank Interior Expanded Range 10 Tank (See NOTE)	9 1/2 x 21 1/2
584C	Wing Slot Mechanism (See NOTE)	12 x 16

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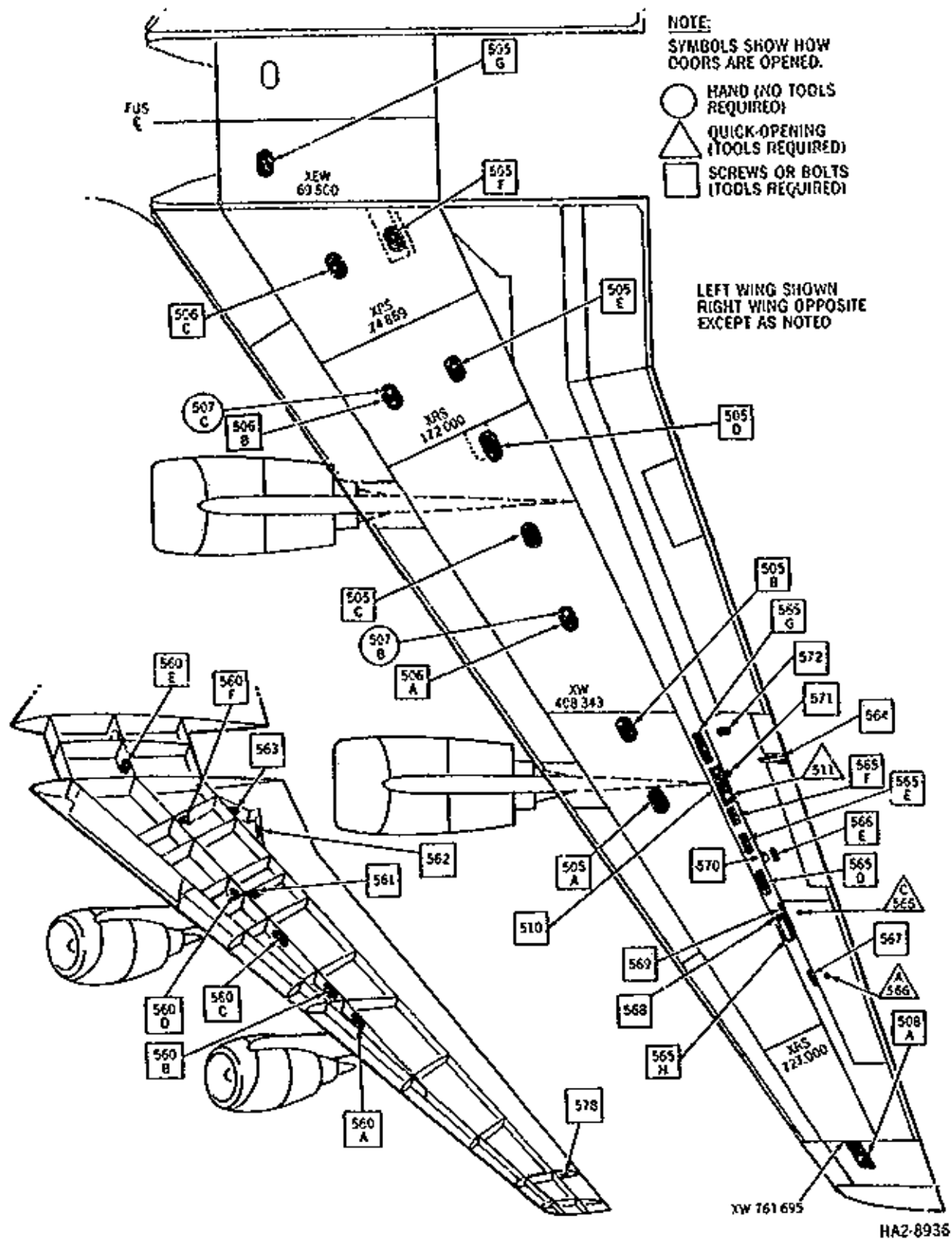
WING ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Access doors to the wing are numbered 500 to 599. Doors through interior bulkheads of the wing are accessible through exterior wing doors.
- B. Doors providing access to the same item or general group of items might have the same number, but with a letter designation added for further identification. For example, the flap hinge bolts 2 through 4 are accessible through access doors 554A through 554F, with the letter identifying the individual door for each bolt.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
505A	Alternate Tanks 1 and 4	9 1/2 x 18 1/2
505B	Alternate Tanks 1 and 4: Fuel Boost Pumps, Compensator and Densitometer	9 1/2 x 18 1/2
505C	Main Tanks 1 and 4	9 1/2 x 18 1/2
505D	Main Tanks 1 and 4: Reservoir Feed Pumps, Fuel Reservoir, Fuel, Boost Pumps, Compensator and Densitometer	9 1/2 x 18 1/2
505E	Main Tanks 2 and 3: Compensator and Densitometer	9 1/2 x 18 1/2
505F	Main Tanks 2 and 3: Reservoir Feed Pumps, Fuel Boost Pumps, Fuel Reservoir, Compensator and Densitometer	9 1/2 x 18 1/2
505G	Center Wing Auxiliary Tank: Fuel Level Control Pilot Valve (automatic), Compensator and Densitometer	9 1/2 x 18 1/2
506A	Main Tanks 1 and 4: Fuel Level Control Pilot Pilot and Selector Valve, Intermediate Fuel Level Control Pilot Valve	9 1/2 x 18 1/2
506B	Main Tanks 2 and 3: Fuel Level Control Pilot Valve	9 1/2 x 18 1/2

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
506C	Main Tanks 2 and 3: Fuel Level Control Pilot Valve Center Wing Auxiliary Tank: Fuel Boost Pump, Fuel Supply Check Valves (in main tank 3)	9 1/2 x 18 1/2
507B	Main Tanks 1 and 4 Fuel Tank Auxiliary Fill Adapter	5 Dia
507C	Main Tanks 2 and 3 Fuel Tank Auxiliary Fill Adapter	5 Dia
508A	Alternate Tank Fuel Low Level Indicating Light Float Switch	9 x 20
510	Aileron Power Mechanism	17 x 32
511	Aileron Power Mechanism	4 x 6
560A	Access through Center Spar	9 x 9
560B	Access through Center Spar	10 x 18
560C	Access through Center Spar	10 x 18
560D	Access through Center Spar	10 x 18
560E	Access through Center Spar	10 x 18
560F	Access through Rib Station X <sub>RS</sub> 22.75	14 x 17
561	Access through Rib Station X <sub>RS</sub> 204	14 x 17
562	Fuel Dump Valve Fittings and Lines	10 x 17
563	Rear Spar	11 x 17
564	Aileron Tab Linkage	2 1/2 x 24
565D	Aileron Balance Weight	5 x 22
565E	Aileron Balance Weight	5 x 22
565F	Aileron Balance Weight	6 x 21
565G	Aileron Balance Weight	5 x 20
565H	Aileron Torsion Bar	4 x 23

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
566A	Aileron Hinge Bracket	1 1/2 x 2
566C	Aileron Hinge Bracket	2 Dia
566E	Aileron Hinge Bracket	2 Dia
567	Aileron Dampener Cylinder	3 x 9
568	Aileron Torsion Bar	13 x 30
569	Aileron Hinge 5	4 x 5
570	Aileron Dampener Cylinder	3 x 9
571	Aileron Mechanical Control	4 x 6
572	Aileron Tab Pushrod	3 x 5
578	Aileron Side Load Fitting (through 545)	5 x 8

THE FOLLOWING DOORS LOCATED ON FIGURE 202

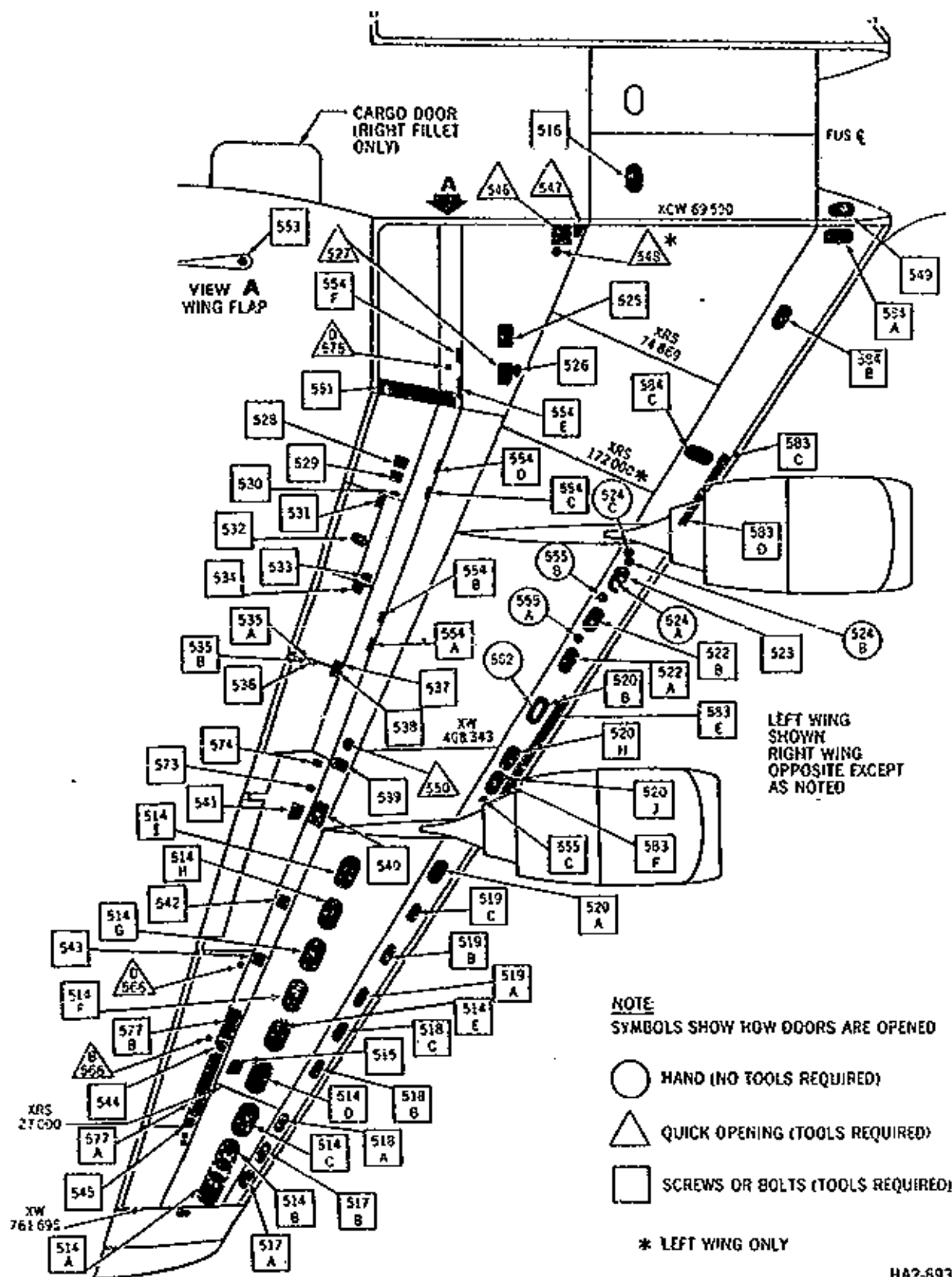
514A	Main Tanks 1 and 4	9 1/2 x 18 1/2
514B	Main Tanks 1 and 4	9 1/2 x 18 1/2
514C	Main Tanks 1 and 4, Main Tanks 1 and 4 Fuel Level Control Pilot Valve	9 1/2 x 18 1/2
514D	Main Tanks 1 and 4	9 1/2 x 18 1/2
514E	Main Tanks 1 and 4, Main Tanks 1 and 4 Fuel Level Control Pilot Valve	9 1/2 x 18 1/2
514F	Main Tanks 1 and 4	9 1/2 x 18 1/2
514G	Main Tanks 1 and 4	9 1/2 x 18 1/2



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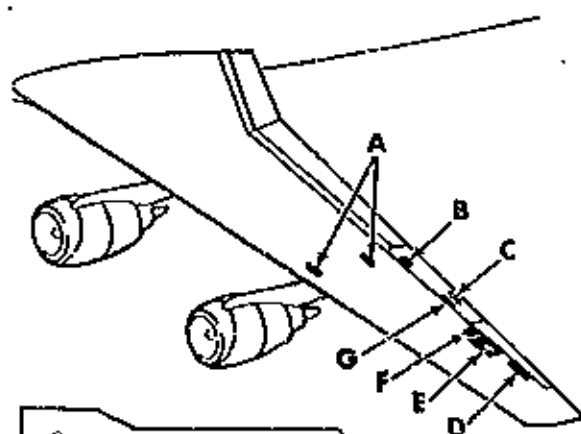
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
514H	Tanks 1 and 4	9 1/2 x 18 1/2
514I	Tanks 1 and 4	9 1/2 x 18 1/2
515	Fuel Vent	8 1/2 x 10 1/2
516	Center Wing Auxiliary Tank Sump Drain Valves	9 1/2 x 18 1/2
517A	Wiring	5 1/2 x 9 1/2
517B	Wiring	5 1/2 x 9 1/2
518A	Wing De-Icing Valve 1, Outer Wing Vent Scoop Anti-Icing Valve	5 1/2 x 9 1/2
518B	Wing Leading Edge	5 1/2 x 9 1/2
518C	Wing Leading Edge	5 1/2 x 9 1/2
519A	Wing De-Icing Valve 3	5 1/2 x 9 1/2
519B	Tank 4: Fuel Tank Selector Valve, Fuel Supply Check Valve, Fuel Tank Inlet Check Valve, Fuel Level Control Valve Tanks 1 and 4: Pressure Refuel Test Panel, Fuel Cross Feed Valve	8 x 16
519C	Wing De-Icing Valve 5	8 x 16
520A	Tank 1 Electrically Operated Fuel Shutoff Valve Alternate Tank 4: Electrically Operated Fuel Tank Fill Valve Surge Pressure Relief Valve, Outer Wing Pneumatic Duct Shutoff Valve	9 1/2 x 21 1/2
520B	Main Tanks 1 and 4: Electrical Fuel Shutoff Valve, Fuel Check Valve, Fuel Level Control Valve, Fuel Inlet Check Valve	9 1/2 x 21 1/2
520H	Main Tank 1: Fuel Inlet Check Valve, Fuel Level Control Valve, Fuel Tank Selector Valve, Fuel Supply Check Valve, Fuel Fire Shutoff Valve	12 x 21 1/2
520J	Wing Slot Mechanism: Wing Slot Switch	11 1/2 x 16

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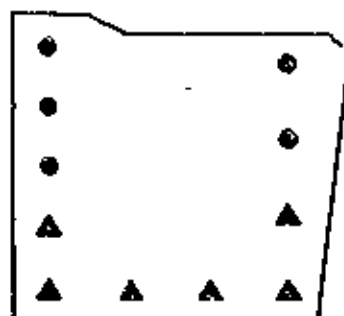
**VIEW A**  
 DOOR NO. 503, 503B

- ▲ 1 NAS334CPA11
- 1 NAS334CPA7



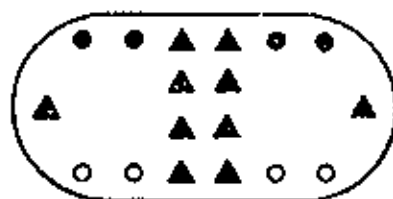
**VIEW D**  
 DOOR NO. 567

- ▲ 2 NAS333CPA4
- 3 NAS1203-3



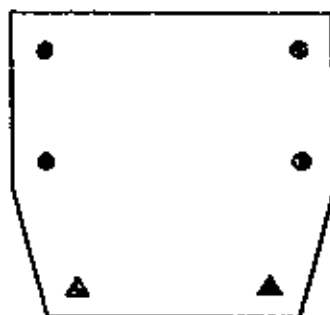
**VIEW F**  
 DOOR NO. 569

- ▲ 6 NAS333CPA4-5
- 5 NAS333CPA4



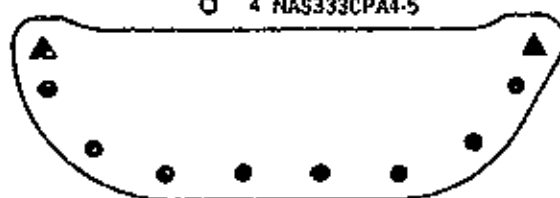
**VIEW C**  
 DOOR NO. 566E

- ▲ 10 NAS333CPA5
- 4 NAS333CPA4
- 4 NAS333CPA4-5



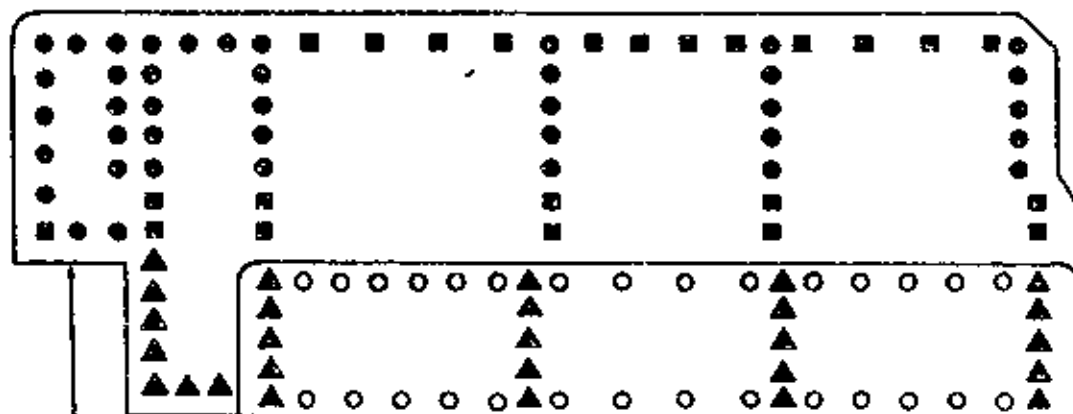
**VIEW B**  
 DOOR NO. 571

- ▲ 2 S-4619303-4
- 4 S-4619303-3



**VIEW G**  
 DOOR NO. 570

- ▲ 2 NAS333CPA5
- 8 NAS333CPA4-5



**DOOR NO. 568**

- ▲ 7 NAS333CPA4-5
- 40 NAS1403-4
- 23 NAS1403-3

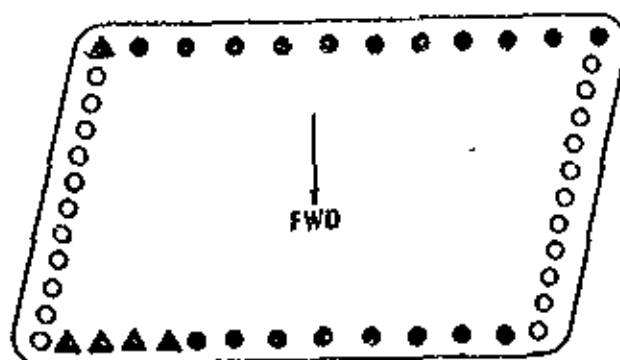
**VIEW E**

**DOOR NO. 565H**

- ▲ 20 NAS333CPA4-5
- 29 NAS333CPA-4

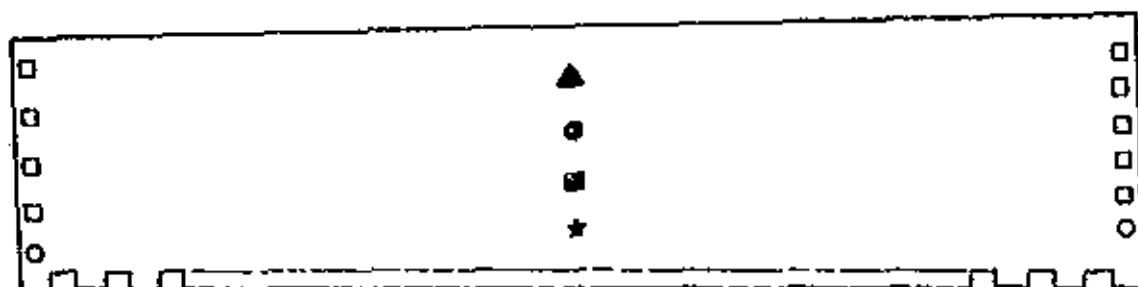
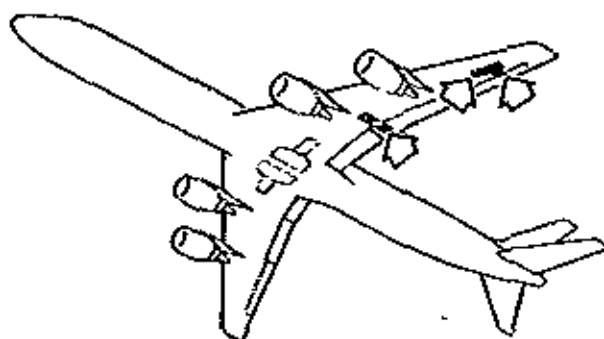
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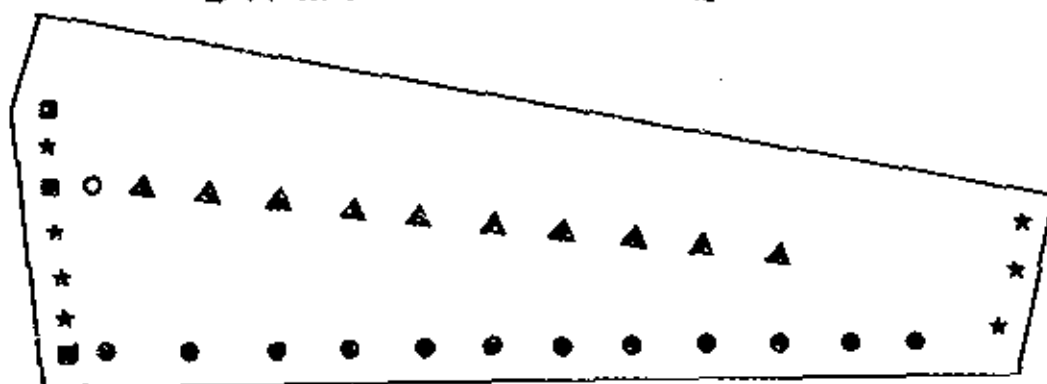
VIEW A  
 DOOR NO. 515

- ▲ 5 S-4619303-7
- 22 S-4619303-6
- 19 S-4619303-4



VIEW B  
 DOOR NO. 577A

- |                  |                  |
|------------------|------------------|
| ▲ 1 NAS334CPA-15 | ★ 1 NAS334CPA-11 |
| ● 1 NAS334CPA-14 | ○ 2 NAS334CPA-7  |
| ■ 1 NAS334CPA-12 | □ 9 NAS334CPA-6  |



VIEW C  
 DOOR NO. 551

- |                    |                   |
|--------------------|-------------------|
| ▲ 10 NAS333CPA-15  | ★ 7 NAS333CPA4-4  |
| ● 12 NAS333CPA14-5 | ○ 1 NAS333CPA15-5 |
| ■ 3 NAS333CPA4-5   |                   |

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
522A	Main Tank 2 and 3 Fill Valve Wing De-Icing Valve 7	9 1/2 x 21 1/2
522B	Wing De-Icing Valves 2 and 4, Fire Extinguishing Agent, Container Directional Valve, Reservoir Feed Pump Pressure Switch	9 1/2 x 21 1/2
523	Fire Extinguishing Agent Container Hydraulic Fire Shutoff Valve	9 1/2 x 21 1/2
524A	Fire Extinguishing Agent Container Pressure Gage	3 x 4
524B	Fire Extinguishing Agent Container Pressure Gage	3 x 4
524C	Fire Extinguishing Agent Container Pressure Gage	1 3/4 Dia
525	Access Door No. 562, Reservoir Feed Pump Pressure Switch	13 x 15
526	Fuel Dump Chute	1 1/2 x 5
527	Fuel Dump Chute Shroud	113 x 21
528	Exhaust Gate Linkage	4 x 6
529	Exhaust Gate Linkage	5 x 6
530	Exhaust Gate Inboard Hinge	5 x 2
531	Exhaust Gate Torque Tube	4 x 8
532	Exhaust Gate Center Hinge	3 x 4
533	Exhaust Gate Outboard Hinge	3 x 4 1/2
534	Exhaust Gate Outboard Hinge	5 x 5
535A	Flap Inspection	1 1/4 x 1 1/2
535B	Flap Inspection	1 1/4 x 1 1/2
536	Flap Torque Link	2 x 2 1/2
537	Flap Inspection	3 x 4 1/2
538	Flap Inspection	3 x 4 1/2

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 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
539	Aileron Hinge 1	6 x 18
540	Aileron Hinge 2, Aileron Power Mechanism	17 x 32
541	Aileron Power Lockout Mechanism	6 x 11
542	Aileron Hinge 3	11 x 14
543	Aileron Hinges 4 and 5	14 x 20
544	Aileron Hinge 6	11 x 12
545	Aileron Hinge 7	8 x 8
546	Main Gear Inspection, General Access	18 x 20
547	(Left Wing) Ground Hydraulic Attach Point (Right Wing) Auxiliary Air Ground Start	9 x 9
548	Hydraulic Reservoir Drain	3 1/2 Dia
549	Center Wing Auxiliary Tank (Left Wing): Electrically Operated Fuel Tank Fill Valve, Fuel Level Control Valve Forward Auxiliary Tank (Right Wing): Electrically Operated Fuel Tank Fill Valve, Fuel Level Control Valve, Fuel Tank Inlet Check Valve (Right Wing)	12 x 24
550	Ground Phone Jack and Mooring Ring	5 Dia
551	Flap Joint	14 x 70
553	Flap Hinge Bolt 1	3 Dia
554A	Flap Hinge Bolt 4	7 x 7
554B	Flap Hinge Bolt 4	7 x 8
554C	Flap Hinge Bolt 3	7 x 9
554D	Flap Hinge Bolt 3	7 x 9
554E	Flap Hinge Bolt 2	9 1/2 x 20
554F	Flap Hinge Bolt 2	9 x 10

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

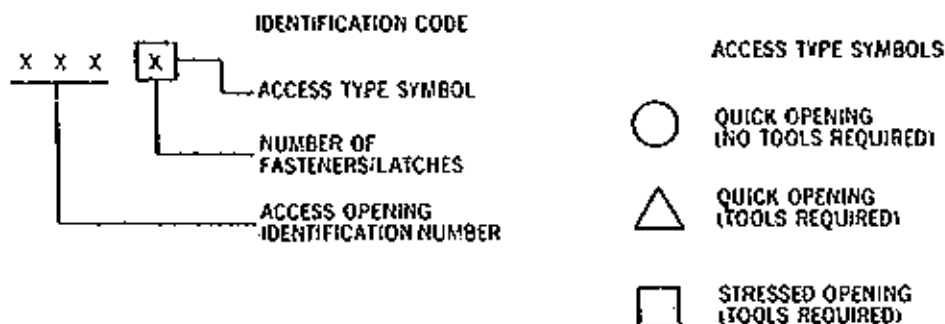
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
555A	Fuel Pressure Fill Adapter	6 Dia
555B	Fuel Pressure Fill Adapter	6 Dia
555C	Wing Slot Adjustment	6 Dia
566B	Aileron Hinge Bracket	1 1/2 x 2
566D	Aileron Hinge Bracket	1 1/2 x 2
573	Aileron Tab Pushrod	3 x 5
574	Aileron Tab Drum Assembly	5 x 6
575D	Flap Line Grease Fitting	1 Dia
577A	Aileron	10 x 64
577B	Aileron	12 x 23
582	Leading Edge (Blowout Door)	6 x 11
583C	Slot Mechanism Inboard	35 x 3
583D	Slot Mechanism Inboard	7 x 2 1/4
583E	Slot Mechanism Outboard	89 x 3
583F	Slot Mechanism Outboard	6 x 2 1/4
584A	Wing Inboard Leading Edge	9 1/2 x 21 1/2
584B	Tank Interior	9 1/2 x 21 1/2
584C	Wing Slot Mechanism	12 x 16

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
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PYLON AND NACELLE ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Nacelle and nose cowl access doors are identified by number as shown in Figures 201A and 202.
- B. Pylon access doors are identified by number as shown in Figures 203 and 204.

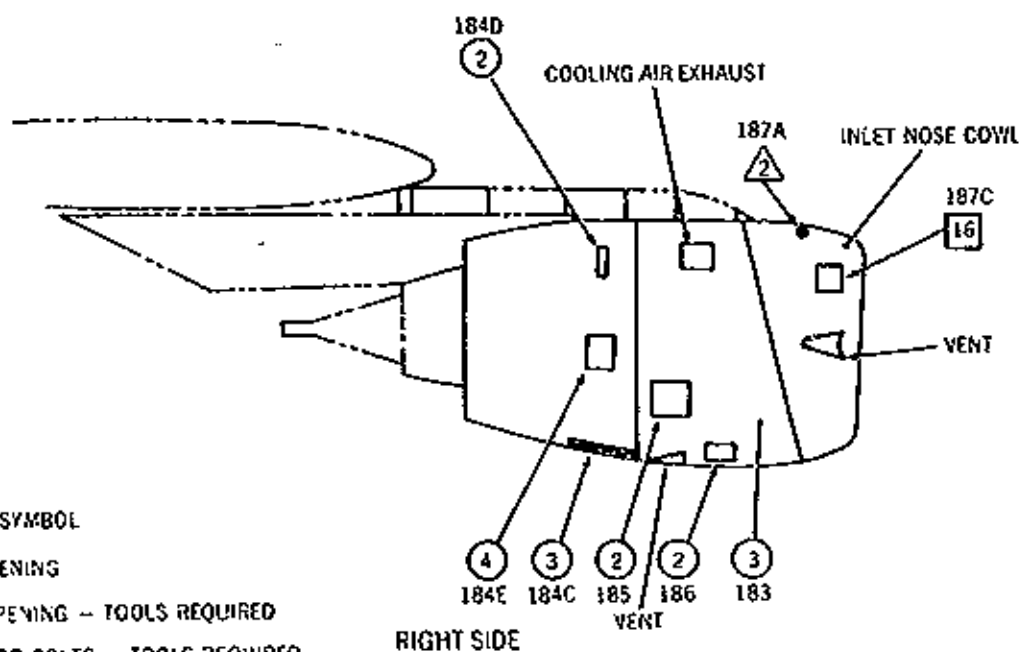
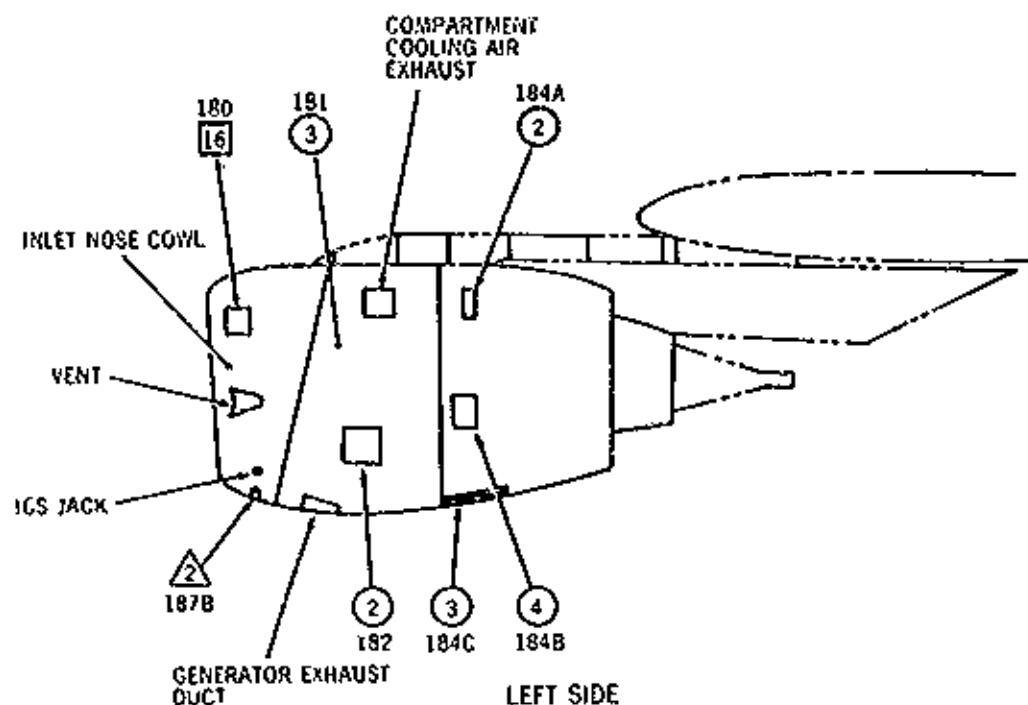


HA2-8951

Identification Code  
 Figure 201



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



ACCESS TYPE SYMBOL

- HAND OPENING
- QUICK OPENING - TOOLS REQUIRED
- SCREWS OR BOLTS - TOOLS REQUIRED

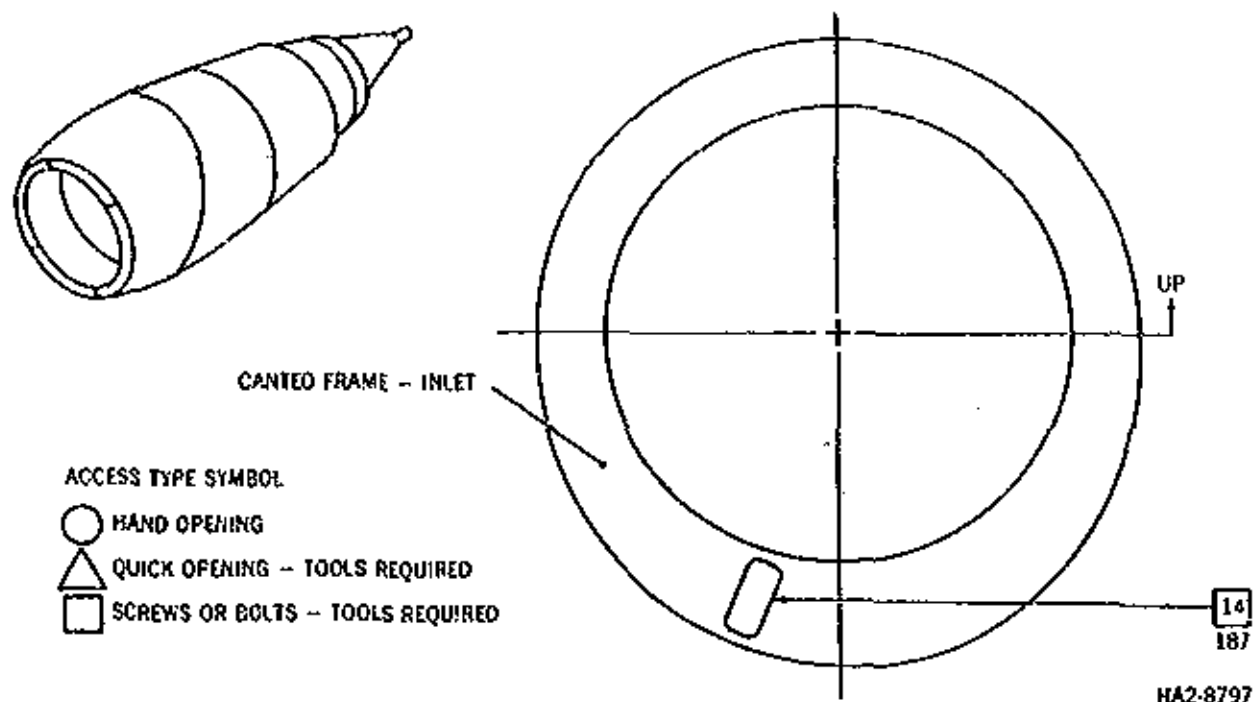
HA2-87968

Access Doors -- Nacelle  
 (Typical All Engines)  
 Figure 201A

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
180	Inlet Anti-ice Line Mounting Seal	8 x 10
181	Cowl Door, LH, Access To Generator, Wiring Harness Ignition Boxes A & B, Throttle Controls, PMC, Engine Lubrication/Indicating Systems, Anti-ice Line, Throttle Controls QD'S, Engine VBV Line, Fire Detection System, Pylon Interface, T/R Mechanism, TR Hydraulic Equipment	90 x 64
182	Engine Oil Service/Qty Dipstick	10 x 14
183	Cowl Door, RH, Access To Hydraulic Pump and Hoses, CSD Starter Valve, Fuel System, T/R Mechanism, T/R Hydraulic Control Unit	90 x 64
184A	Thrust Reverser Actuator	7 x 2
184B	Thrust Reverser Actuator	8 x 4
184C	Fixed Structure, Translating Cowl Latches	23 x 14
184D	Thrust Reverser Actuator	7 x 2
184E	Thrust Reverser Actuator	8 x 4
185	Starter Valve	9 x 11
186	CSD Oil Fill	9 x 11
187A	Nose Cowl Titanium Web and Anti-icing Inner Skin	2 5/16 x 13/16
187B	Nose Cowl Titanium Web and Anti-icing Inner Skin	2 5/16 x 13/16
R 187C	Right Hand Strake Mount Bolts	8 x 10

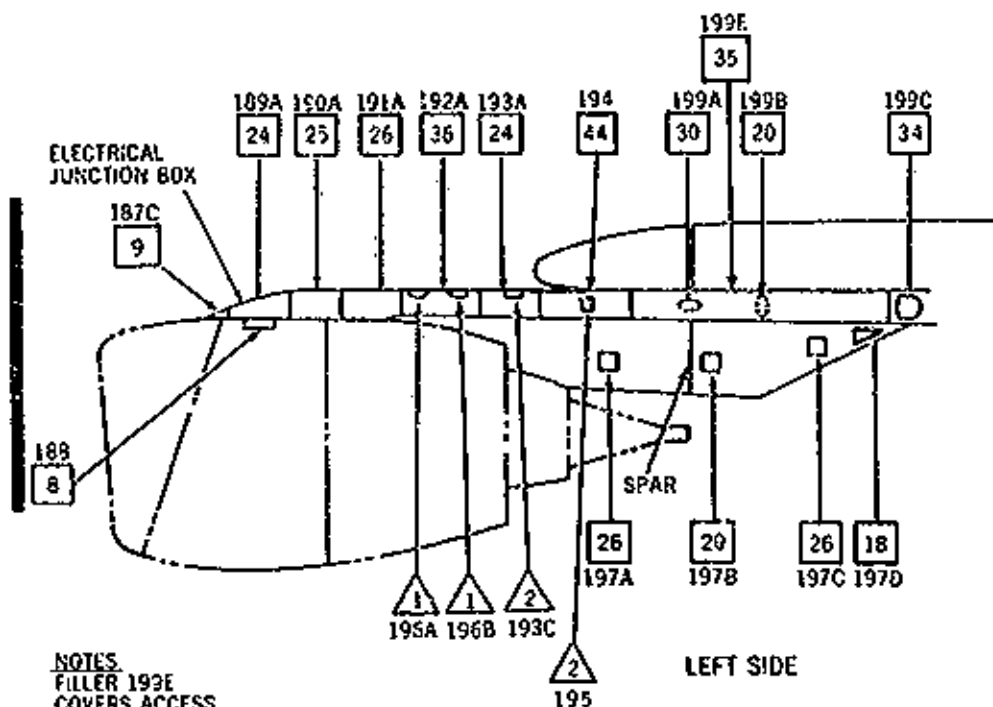
DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



Access Doors--Nose Cowl  
 (Typical All Engines)  
 Figure 202

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
187	Phone Jack Installation	7 1/2 x 6

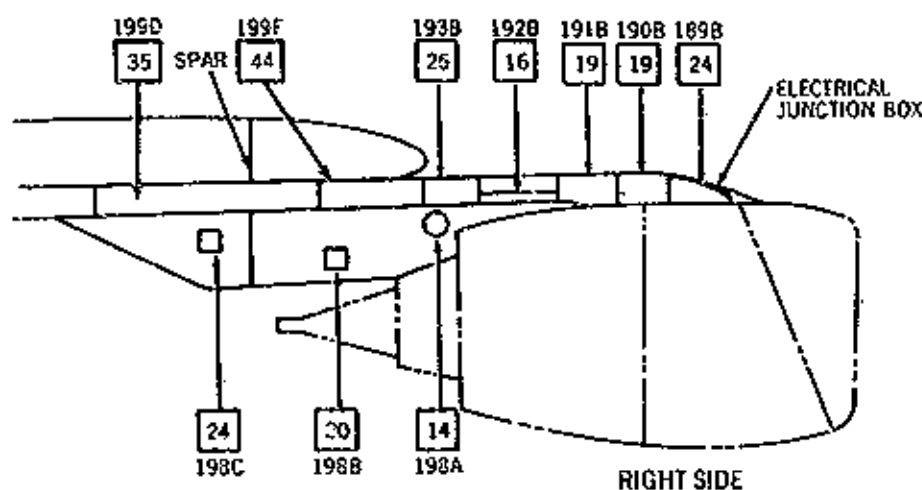
DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



NOTES:  
 FILLER 199E  
 COVERS ACCESS  
 DOORS 199A AND 199B

ACCESS DOORS  
 196A AND 196B  
 ARE PRESSURE  
 POP-OUT DOORS

OUTBOARD PYLON POSITION 1 AND 4



ACCESS TYPE SYMBOL

- HAND OPENING
- △ QUICK OPENING -- TOOLS REQUIRED
- SCREWS OR BOLTS -- TOOLS REQUIRED

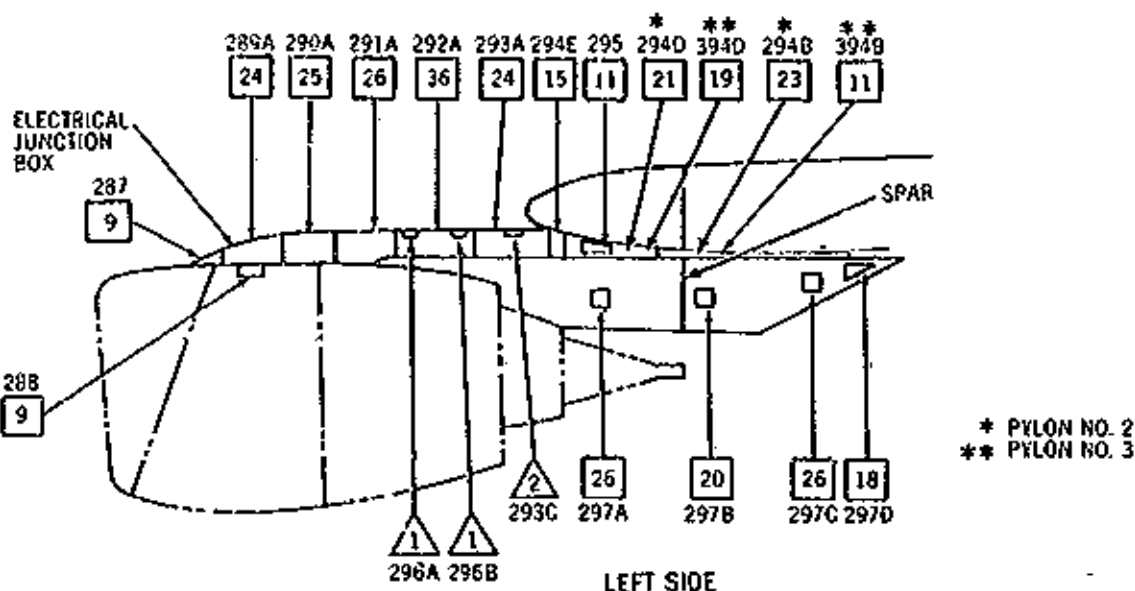
HA2-8798E

Access Doors -- Outboard Pylons  
 (No. 1 and 4)  
 Figure 203

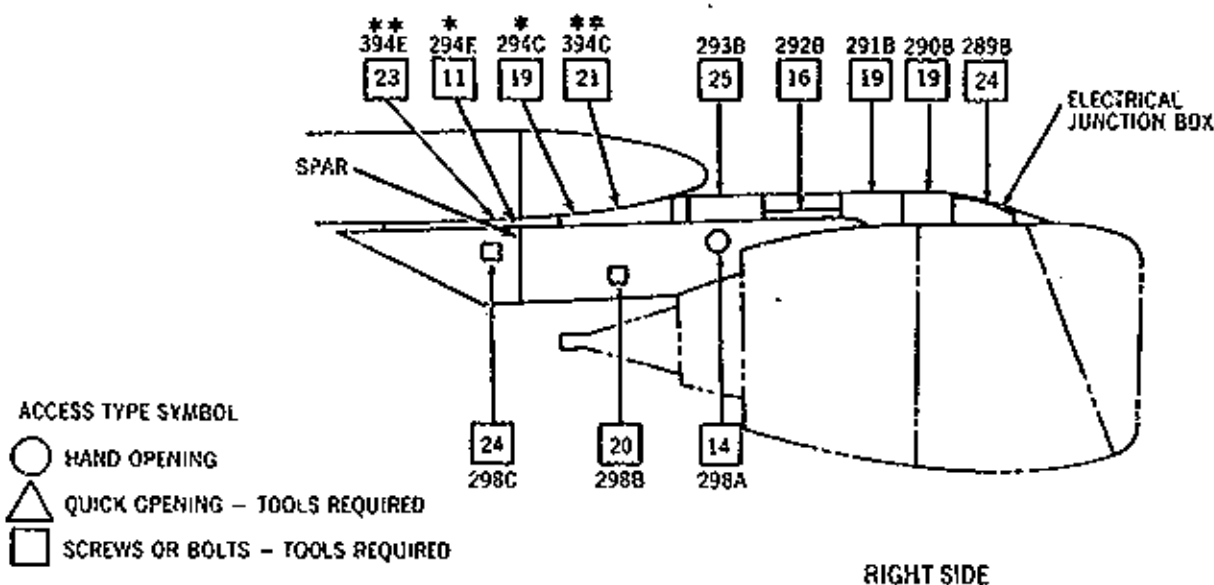
DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
R 187C	Fairing-to-Cowl Seal	4 x 16
R 188	Electrical Junction Box	4 x 16
189A	Electrical Connectors	4 x 20
189B	Piping, Fuel Line, Thrust Reverser Hyd Pressure Return and Emergency Stow Lines, Hyd Pump, Suction Line, Pressure Line, Pump Case Drain Line, Electrical Connectors	4 x 20
190A	Piping, Fuel Line, Throttle and Fuel Shutoff Control Drums	9 x 20
190B	Piping, Fuel Line, Thrust Reverser Hyd Pressure, Return and Emergency Stow Lines, Hyd Pump Case Drain, Hyd Pump Suction Line, Hyd Pump Pressure Line, Throttle and Fuel Shutoff Control Drums	9 x 20
191A	Piping, Engine Control Cables, Throttle and Fuel Shutoff Control Cable Pulley Bracket, Fuel Line	9 x 19
191B	Piping, Engine Control Cables, Throttle and Fuel Shutoff Control Cable Pulley Bracket Cable, Fuel Line, Thrust Reverser Emergency Stow Pressure Line, Thrust Reverser Return and Pressure Lines, Hyd Pump Pressure, Suction and Case Drain Lines.	19 x 19
192A	Piping, Engine Control Cables, Precooler, Precooler Control Valve, Fire X Line, Check Valve, Engine Control Cables	10 x 21
192B	Piping, Engine Control Cables, Precooler, Precooler Control Valve, Fire X Line, Check Valve, Engine Control Cables Thrust Reverser, Hyd Pump Lines	6 x 21
193A	Bleed Air Shutoff Valve, Fire Detector, Thrust Reverser Emergency Stow Pressure Line, Hyd Pump Case Drain Line	9 x 31
193B	Bleed Air Shutoff Valve, Fire Detector, Pressure Line Thrust Reverser Return Line, Hyd Pump Pressure and Suction Lines	9 x 31
193C		4 x 5

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



INBOARD PYLONS POSITION 2 AND 3



HA2-8799D

Access Doors -- Inboard Pylons  
 (No. 2 and 3)  
 Figure 204

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
287	Fairing-to-Cowl Seal	4 x 16
R 288	Electrical Junction Box	4 x 16
289A	Electrical Connectors	16 x 20
289B	Piping, Fuel Line, Thrust Reverser Hyd Pressure Return and Emergency Stow Lines, Hyd Pump, Suction Line, Pressure Line and Pump Case Drain Line, Electrical Connectors	8 x 20
290A	Piping, Fuel Line, Throttle and Fuel Shutoff Control Drums	9 x 20
290B	Piping, Fuel Line, Thrust Reverser Hyd Pressure, Return and Emergency Stow Lines, Hyd Pump Case Drain, Hyd Pump Suction Line, Hyd Pump Pressure Line, Throttle and Fuel Shutoff Control Drums	9 x 20
291A	Piping, Engine Control Cables, Throttle and Fuel Shutoff Control Cable Pulley Bracket, Fuel Line	9 x 21
291B	Piping, Engine Control Cables, Throttle and Fuel Shutoff Control Cable Pulley Bracket Cable, Fuel Line, Thrust Reverser Emergency Stow Pressure Line, Thrust Reverser Return and Pressure Lines, Hyd Pump Pressure, Suction and Case Drain Lines.	9 x 21
292A	Piping, Engine Control Cables, Precooler, Precooler Control Valve, Fire X Line, Check Valve, Engine Control Cables	16 x 31
292B	Piping, Engine Control Cables, Precooler, Precooler Control Valve, Fire X Line, Check Valve, Engine Control Cables Thrust Reverser, Hyd Pump Lines	8 x 31
293A	Bleed Air Shutoff Valve, Fire Detector, Thrust Reverser Emergency Stow Pressure Line, Hyd Pump Case Drain Line	9 x 23
293B	Bleed Air Shutoff Valve, Fire Detector, Pressure Line Thrust Reverser Return Line, Hyd Pump Pressure and Suction Lines	9 x 23
R 293C		4 x 5

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
R 294A	Pylon Structure, Piping Reducer, (Hyd Pump Section Fire Shutoff Valve*) Heat Exchanger, Hyd Pump Pressure and Case Drain Lines, High Stage Bleed Air Valve, Thrust Reverser Lines, and Thrust Reverser Pressure Fire shutoff Valve	16 x 7
R 294B	Pylon Structure	2 x 69
R 294C	Pylon Structure	3 x 33
R 294D	Pylon Structure	5 x 33
R 294E	Pylon Structure	1 x 69
295	Thrust Reverser, Fire Shot Off Valve, Electrical Connectors, Throttle and Fuel shutoff Control Cable Pulley Bracket	5 x 6
296A	Not a Normal Access (for Pressure Relief)	5 Dia.
296B	Not a Normal Access (for Pressure Relief)	5 Dia.
297A	Hyd Pump and Thrust Reverser Lines. Inspection Structures, Electrical Wiring and Terminal Blocks	9 x 9
297B	Hydraulic Piping, Structure, Drain Lines	6 x 8
297C	Pylon Structure, Hyd Pump and Thrust Reverser Lines	8 x 10
297D	Piping, Pylon Structure, Hyd Pump and Thrust Reverser Lines	5 x 7
298A	Heat Exchanger, Electrical	7 Dia.
298B	Electrical	6 x 8
298C	Hyd Pump and Thrust Reverser Lines	7 x 9
R 394B	Pylon Structure	1 x 69
R 394C	Pylon Structure	5 x 33
R 394D	Pylon Structure	3 x 33
R 394E	Pylon Structure	2 x 69



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

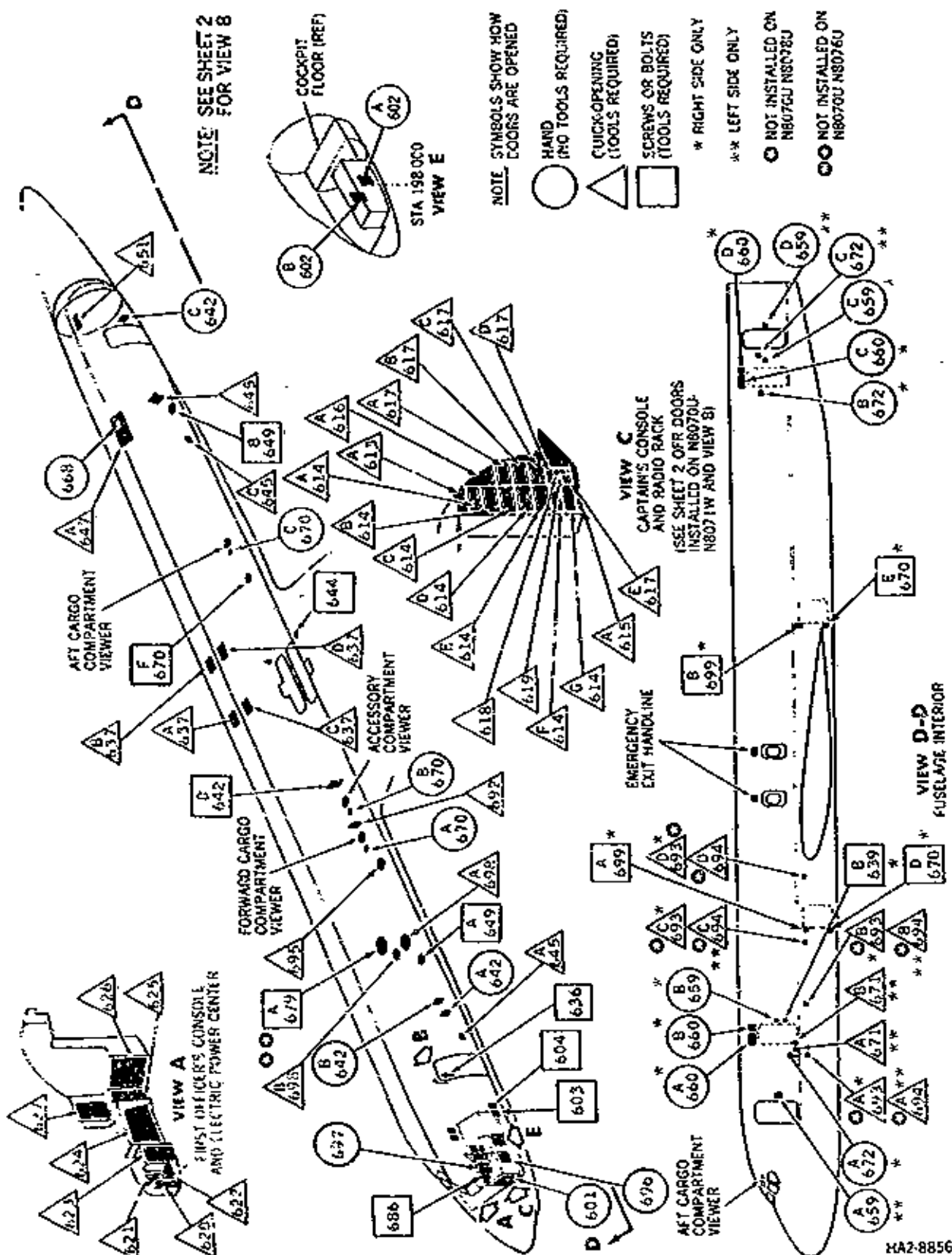
1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
8. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
*613	Radio/Electronic Equipment	5 x 15
613A	Radio/Electronic Equipment	2 x 25

\*Installed on N8070U and N8071U only

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
*615	Radio/Electronic Equipment	24 x 41
615A	Radio/Electronic Equipment	2 x 44
*616	Radio Rack	18 x 30
616B	Radio/Electronic Equipment	8 x 10
616C	Radio/Electronic Equipment	20 x 19
*617	Radio/Electronic Equipment	18 x 41
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	9 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33

\*Installed on N8070U and N8071U only

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
628	Wiring	9 x 20
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	39 x 34
637A	Emergency Battery	8 1/2 x 12
*637B	Emergency Battery	4 1/2 x 12
*637C	Emergency Battery	4 1/2 x 12
*637D	Emergency Battery	4 1/2 x 12
639B	Attendant's Call Button	3 x 7
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
642D	Washstand Piping	18 x 24
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26

\*Installed on N8095U - N8099U

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**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

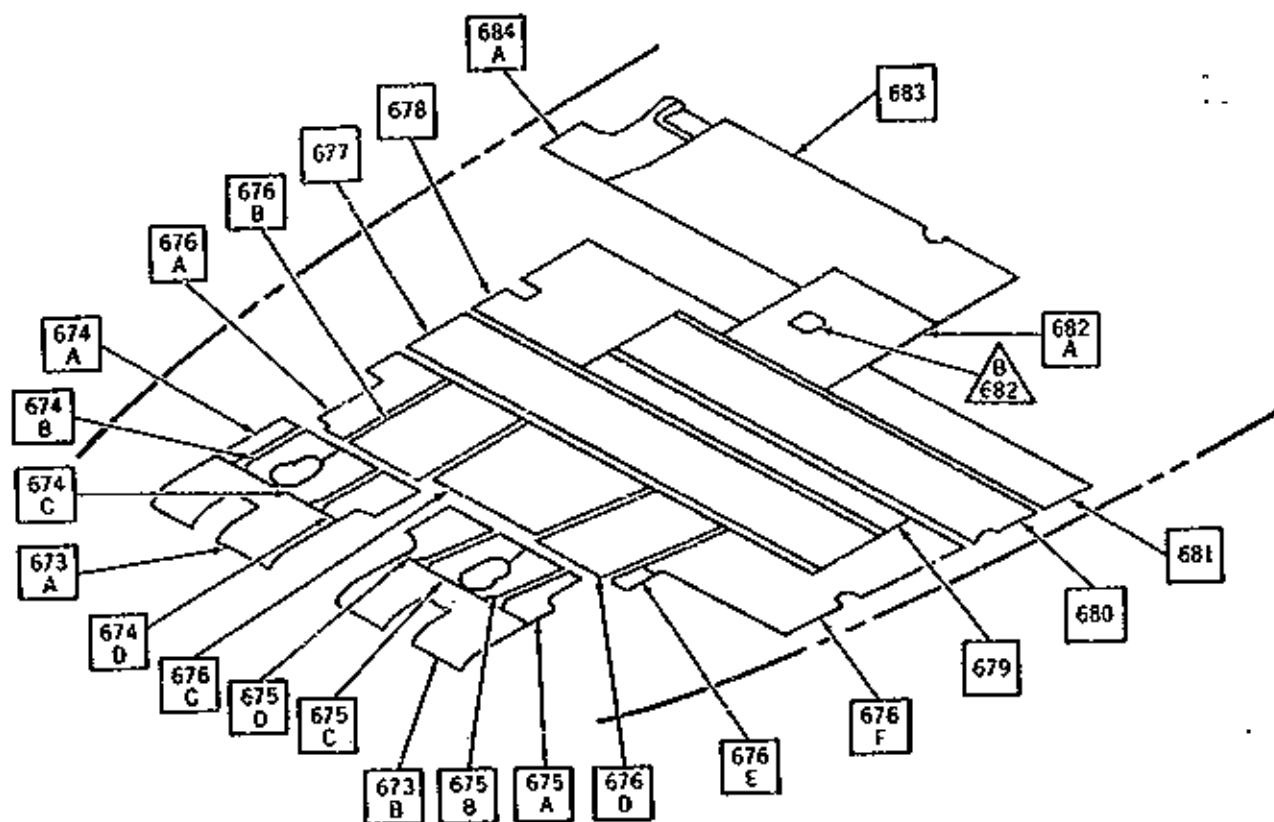
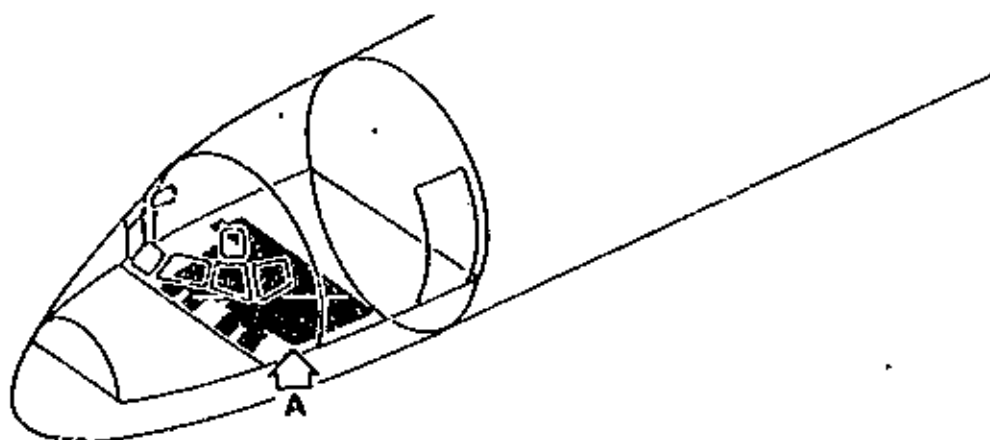
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
647A	Oxygen Cylinders	37 x 54
649A	Pressure Water System Drain Valve	8 1/2 Dia
649B	Pressure Water System Drain Valve	8 1/2 Dia
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 4
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670A	Forward Cargo Compartment Viewer and Light Switch	5 x 7
670B	Accessory Compartment Viewer and Light Switch	5 x 7
670C	Aft Cargo Compartment Viewer and Light Switch	5 x 7
650D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
*670F	Cargo Hoist Switch	10 Dia
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8

\*Installed on NB080U and subsequent

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



VIEW A

NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

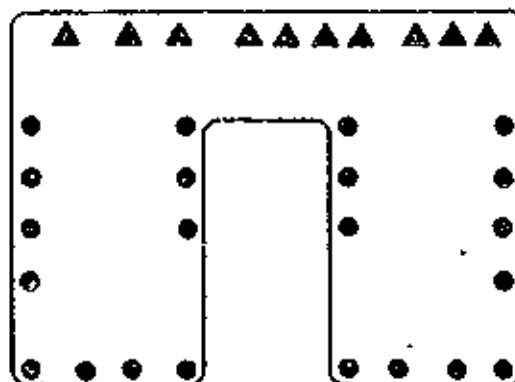
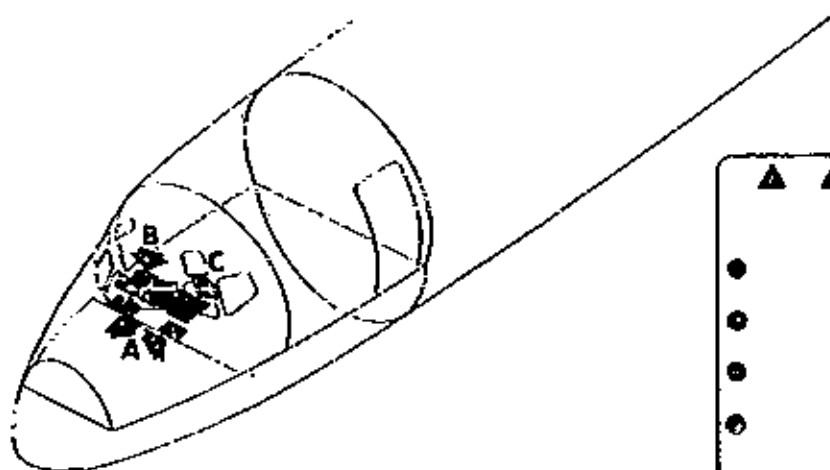
○ HAND  
TOOLS REQUIRED

△ SCREWS OR BOLTS  
TOOLS REQUIRED

□ QUICK OPENING  
TOOLS REQUIRED

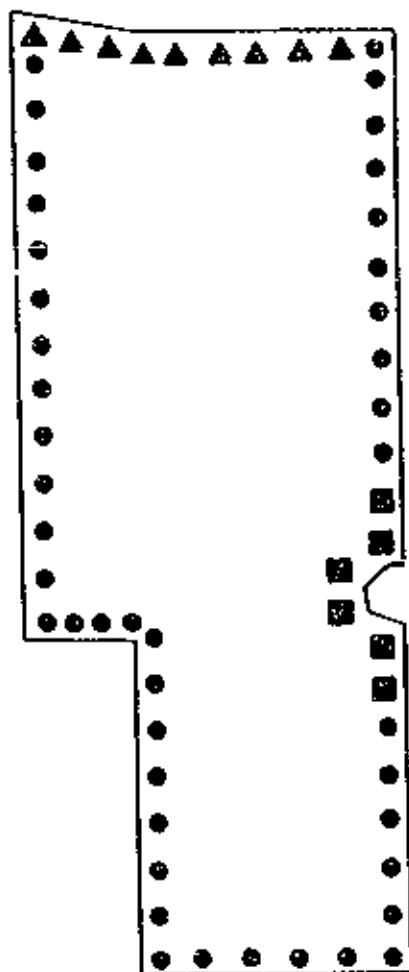
HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



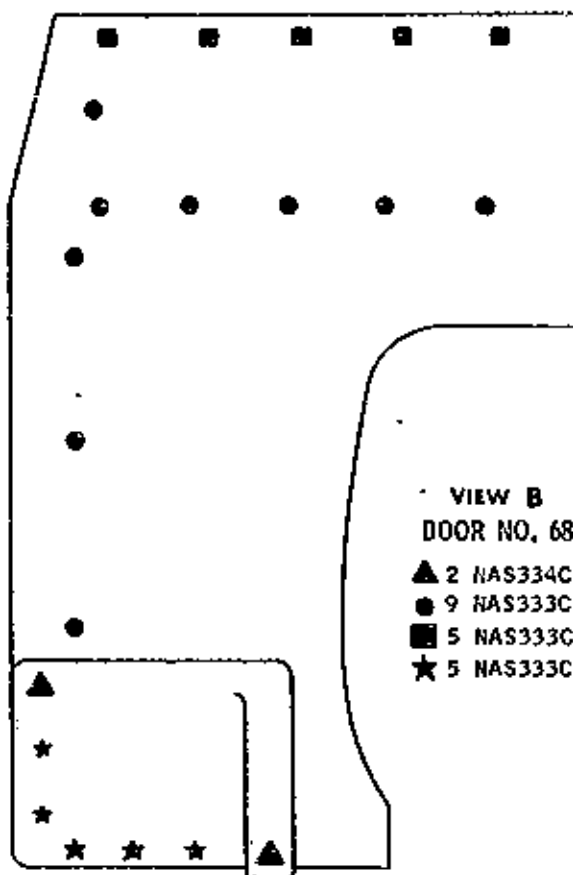
VIEW A  
 DOOR NO. 673A, 6738

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

NA2-1459



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
679A	Forward Yaw and Pitch Accelerometers (Located in cargo compartment ceiling)	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
*693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

\*Not installed on N8070J-N8078U

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 14
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
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MAINTENANCE MANUAL

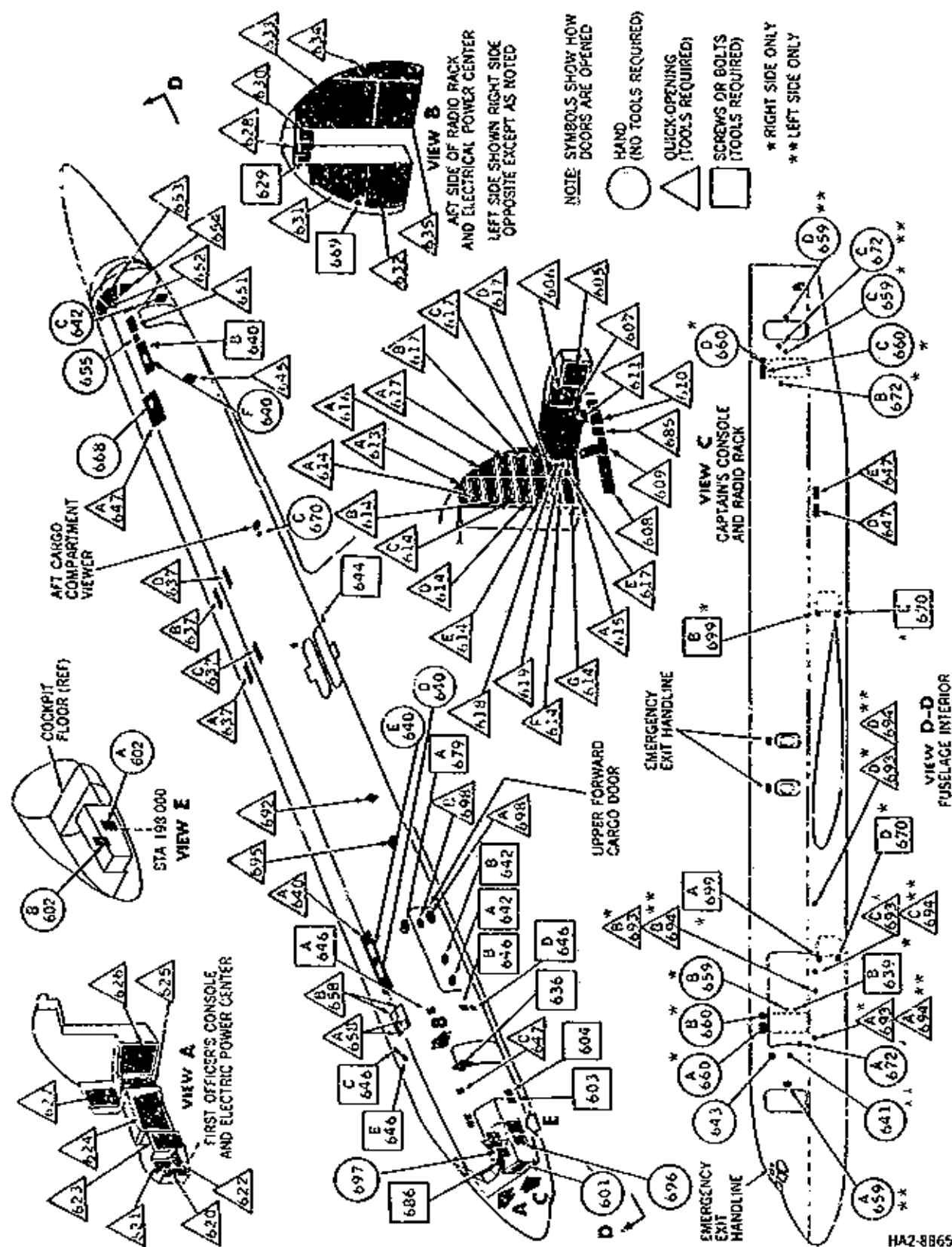
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

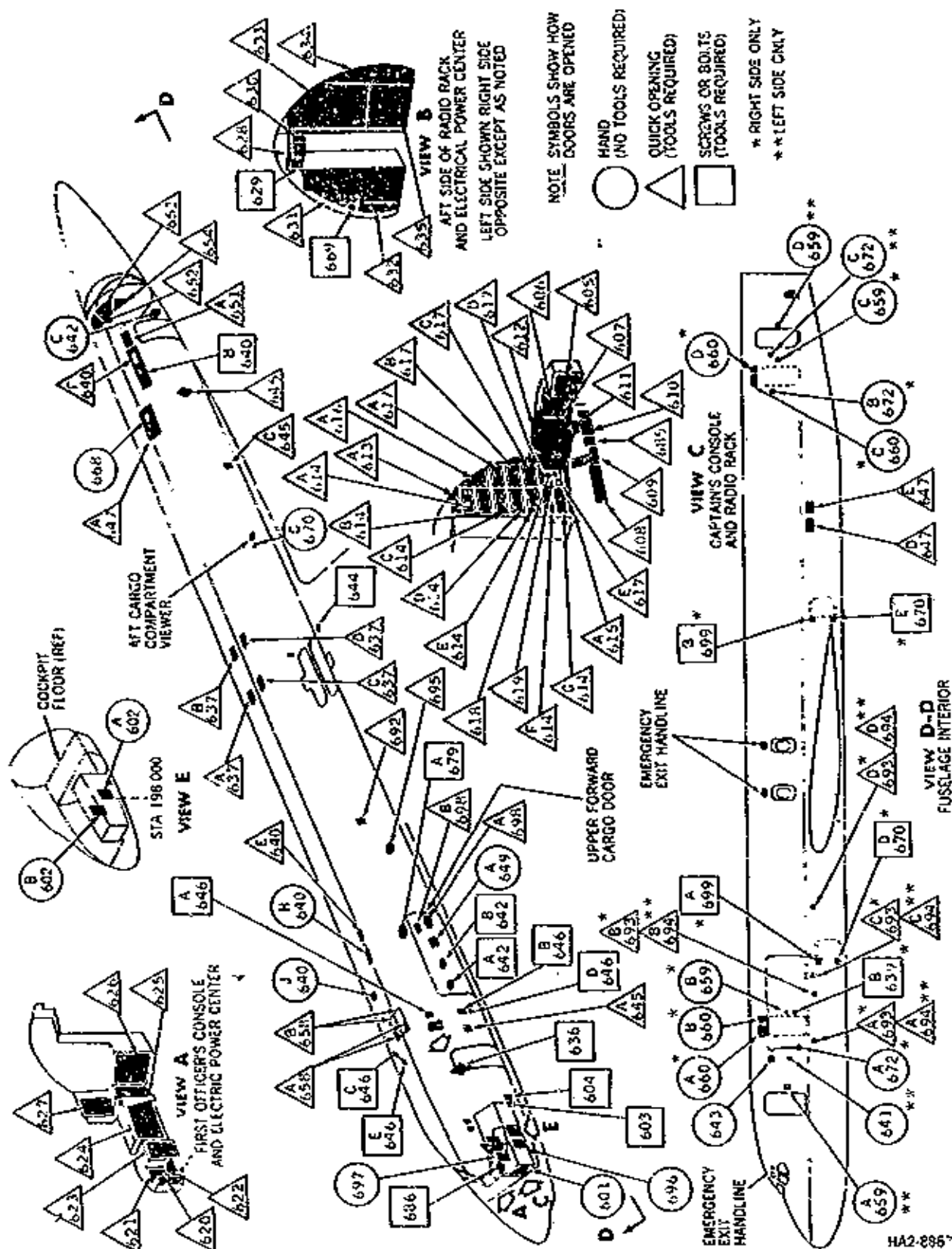
- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



Access Doors -- Fuselage Interior  
 Figure 1 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
637A	Emergency Battery	8 1/2 x 12
639B	Attendant's Call Button	3 x 7
640A	Forward Potable Water Tanks	26 x 80
640B	Aft Potable Water Tanks	21 x 78
640D	Potable Water Re-route Valve	6 x 6
640E	Potable Water Fill and Overflow Valves	6 x 6
640F	Potable Water Fill and Drain Valve	5 x 7
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
647A	Oxygen Cylinders	37 x 54
651	Water Piping	21 x 41

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

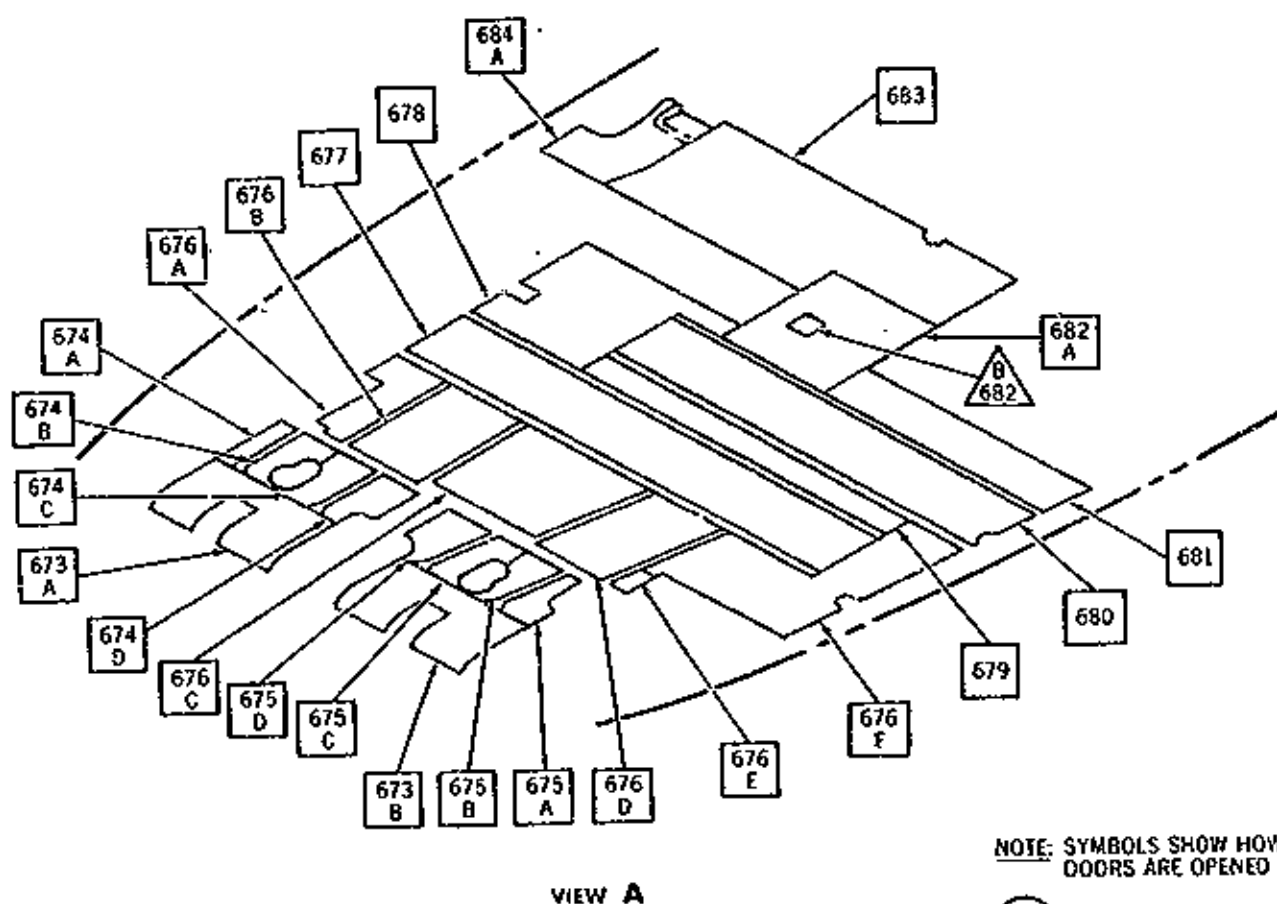
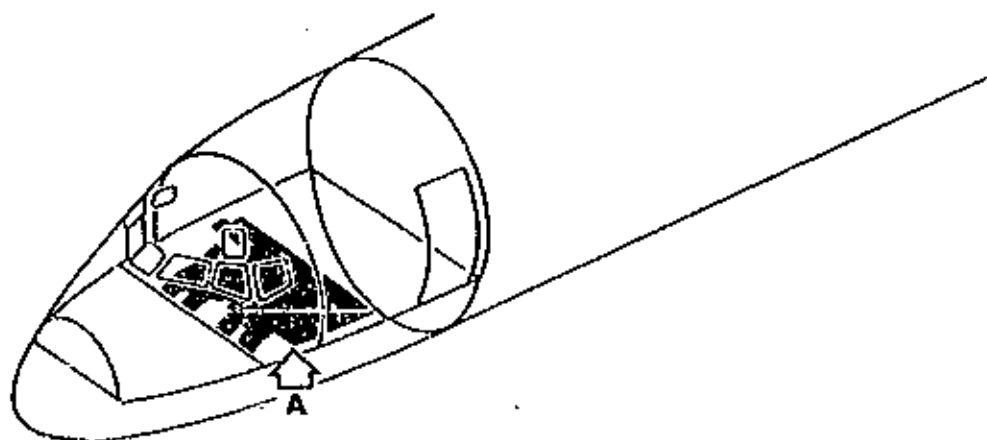
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42
655	Water Piping	30 x 32
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20






DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



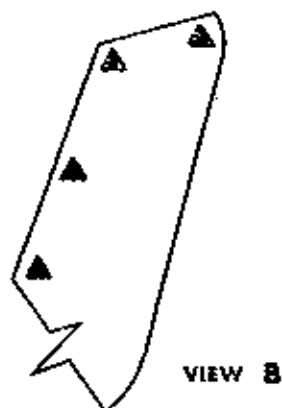
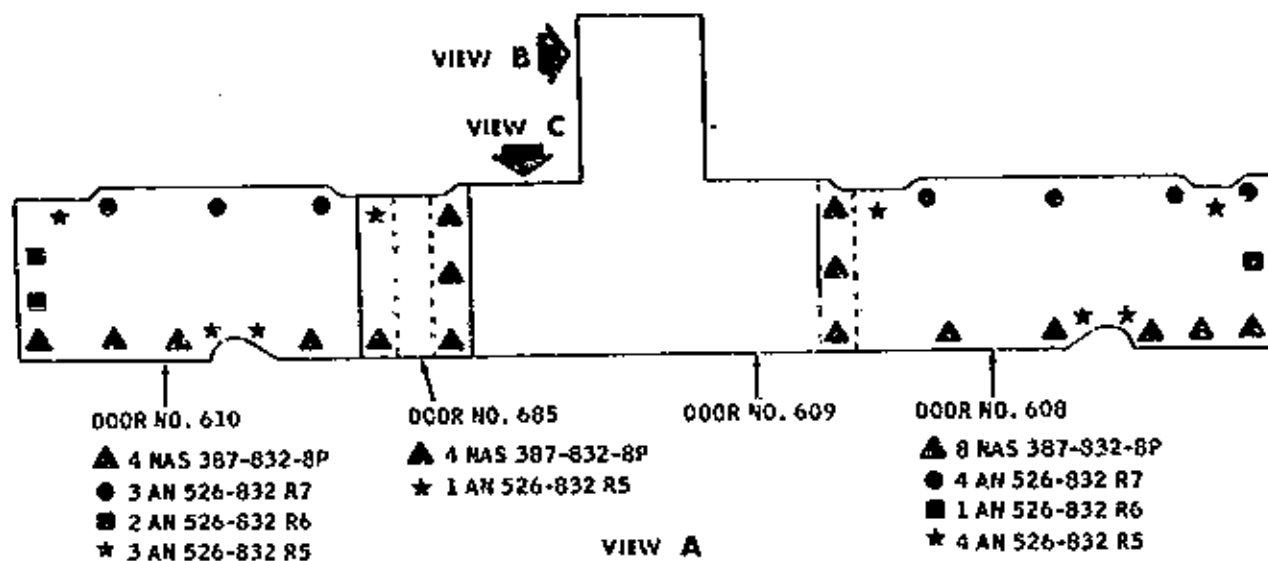
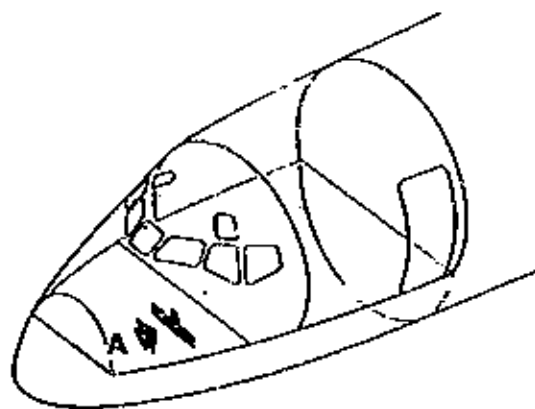
VIEW A

NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

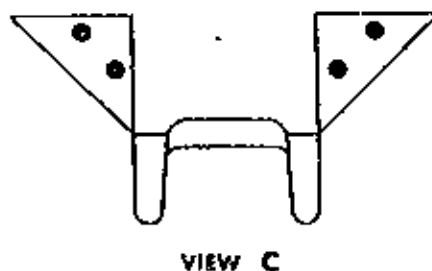
-  HAND  
(NO TOOLS REQUIRED)
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



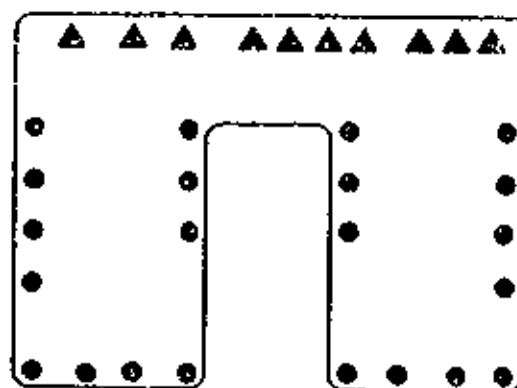
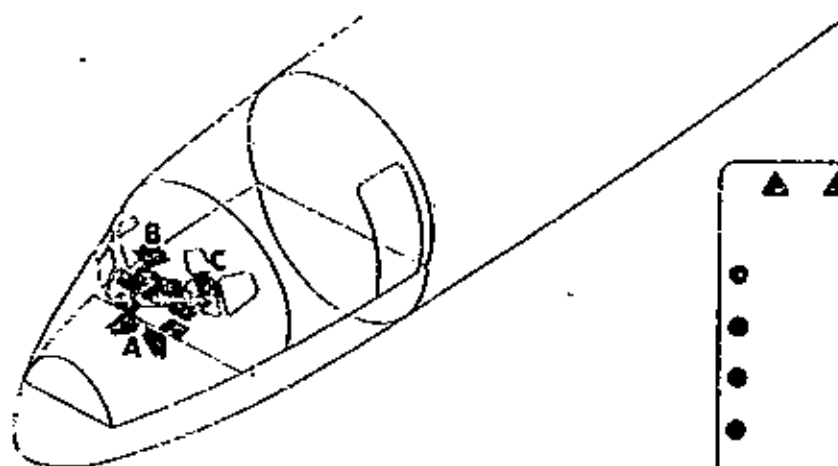
**DOOR NO. 609**  
 ▲ 8 NAS 387-832-10



**DOOR NO. 609**  
 ● 4 NAS 387-832-6

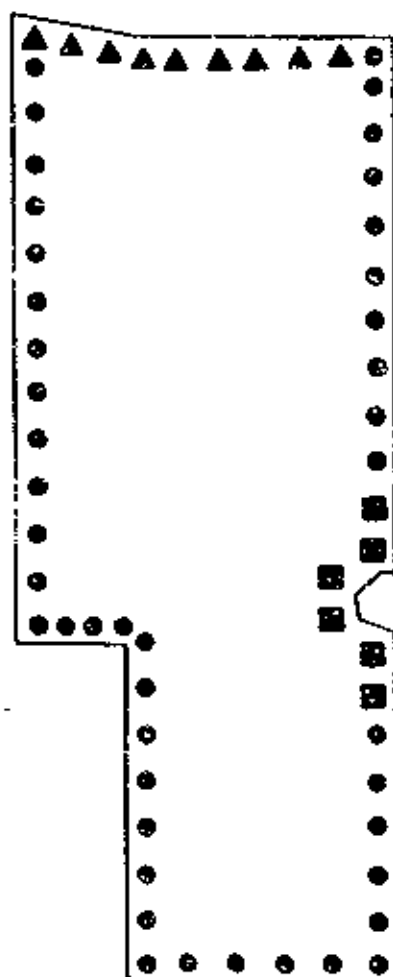
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



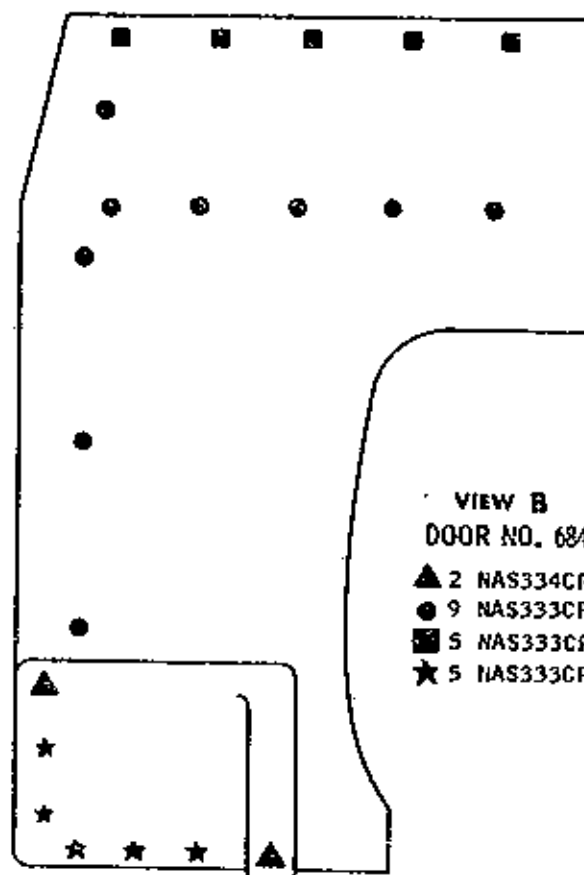
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679	No Access	
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

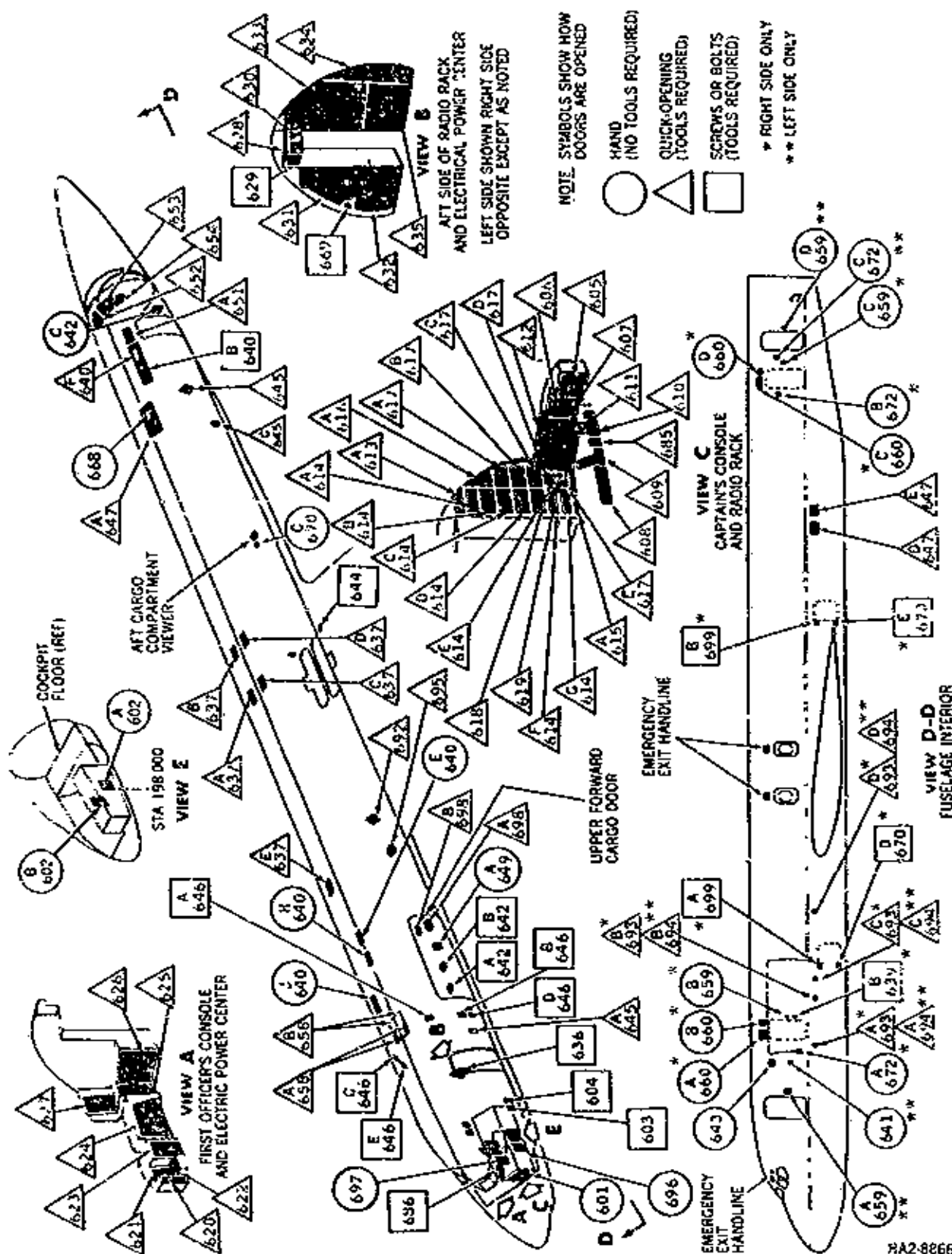
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- R. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



HA2-8266

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	3 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	39 x 34
637A	Emergency Battery	8 1/2 x 12
637B	Emergency Battery	8 1/2 x 12
637C	Emergency Battery	8 1/2 x 12
637D	Emergency Battery	8 1/2 x 12
637E	Emergency Battery	8 1/2 x 12
639B	Attendants Call Button	3 x 7
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
645A	Forward Waste Water Drain Valve	4 x 6
645C	Aft Waste Water Drain Valve	4 x 6



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

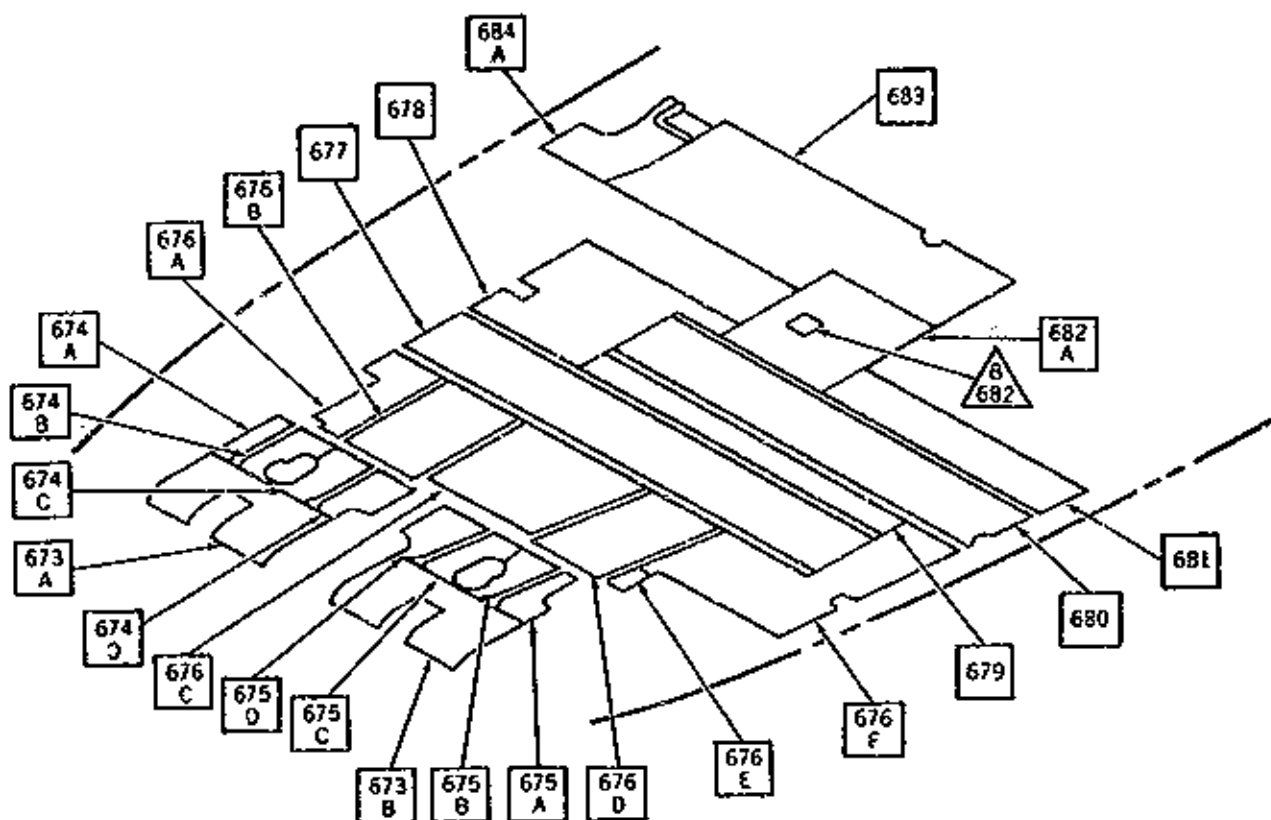
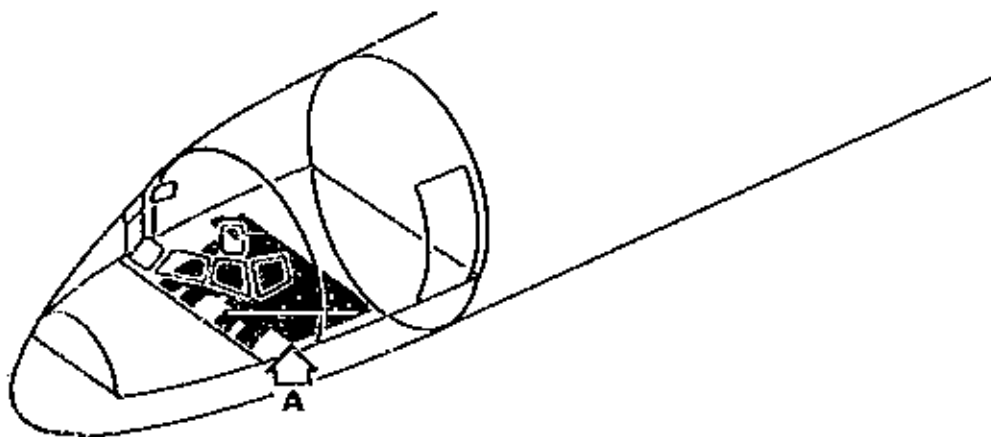
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
647A	Oxygen Cylinders	37 x 54
649A	Pressure Water System Drain Valve	8 1/2 Dia
649B	Pressure Water System Drain Valve	8 1/2 Dia
651A	First Aid Oxygen Cylinders; Flight Recorder	32 x 34
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 4
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
673B	Rudder Pedal Mechanism Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mech Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
*679A	Yaw and Pitch Accelerometers (Located in cargo compartment ceiling)	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60

\*Installed on airplane N826E and subsequent.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



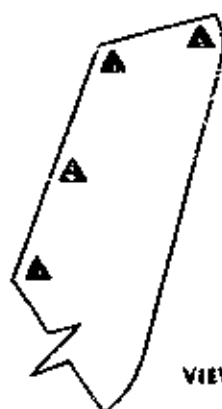
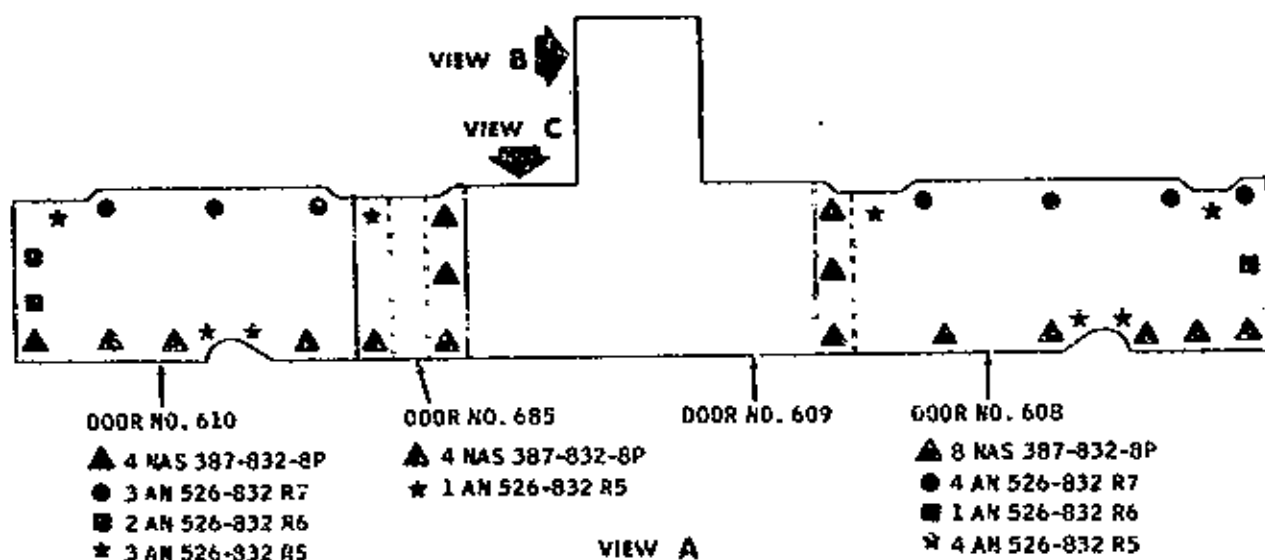
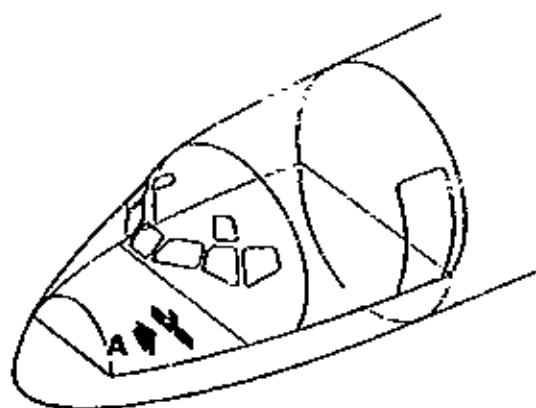
VIEW A

**NOTE:** SYMBOLS SHOW HOW DOORS ARE OPENED

-  HAND  
(NO TOOLS REQUIRED)
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

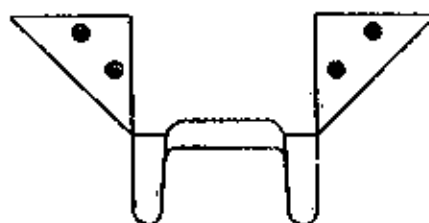
HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOOR NO. 609

- ▲ 8 NAS 387-832-10



DOOR NO. 609

- 4 NAS 387-832-6

HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
*693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
*694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia

\*Installed on airplane N826E and subsequent.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
6988	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

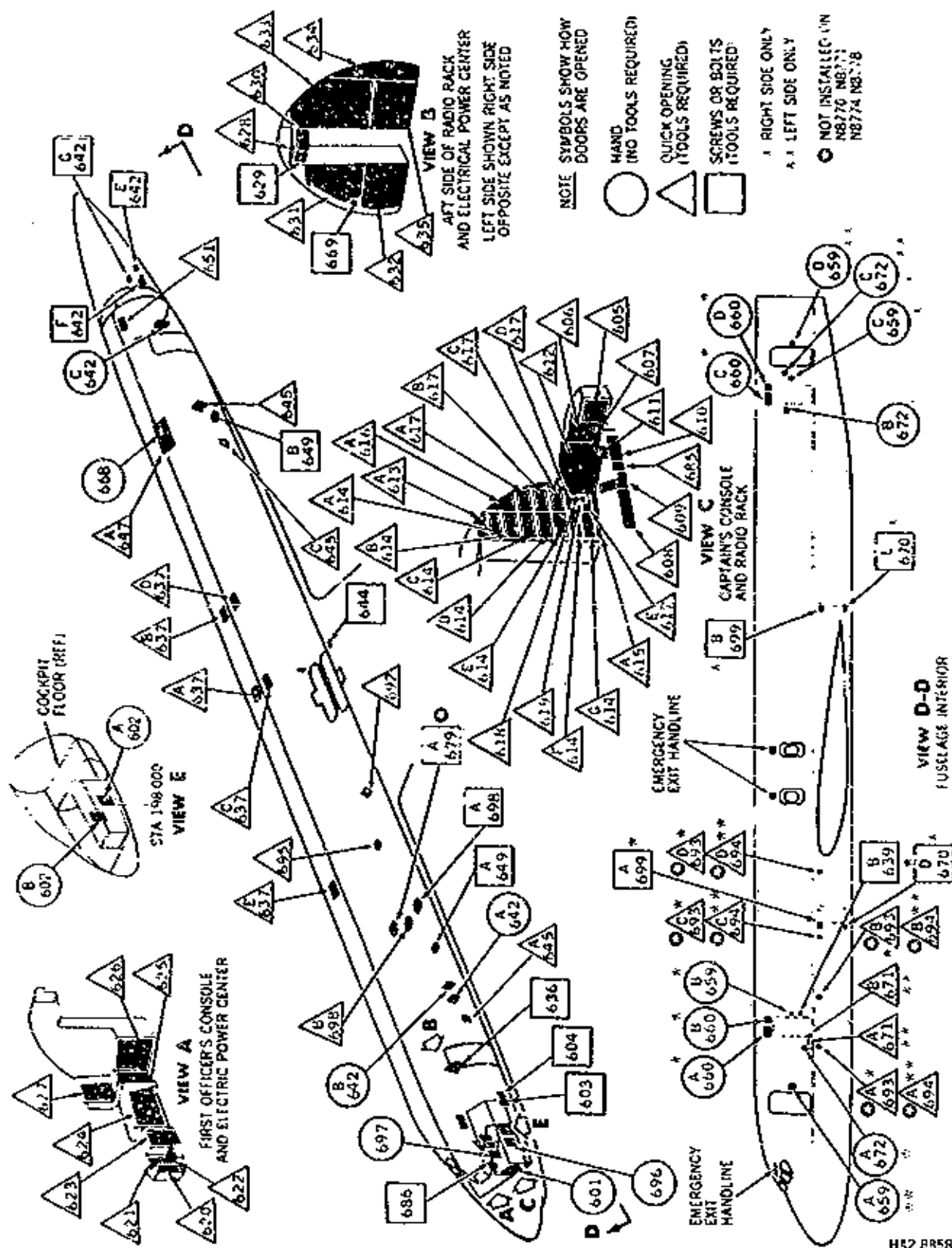
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

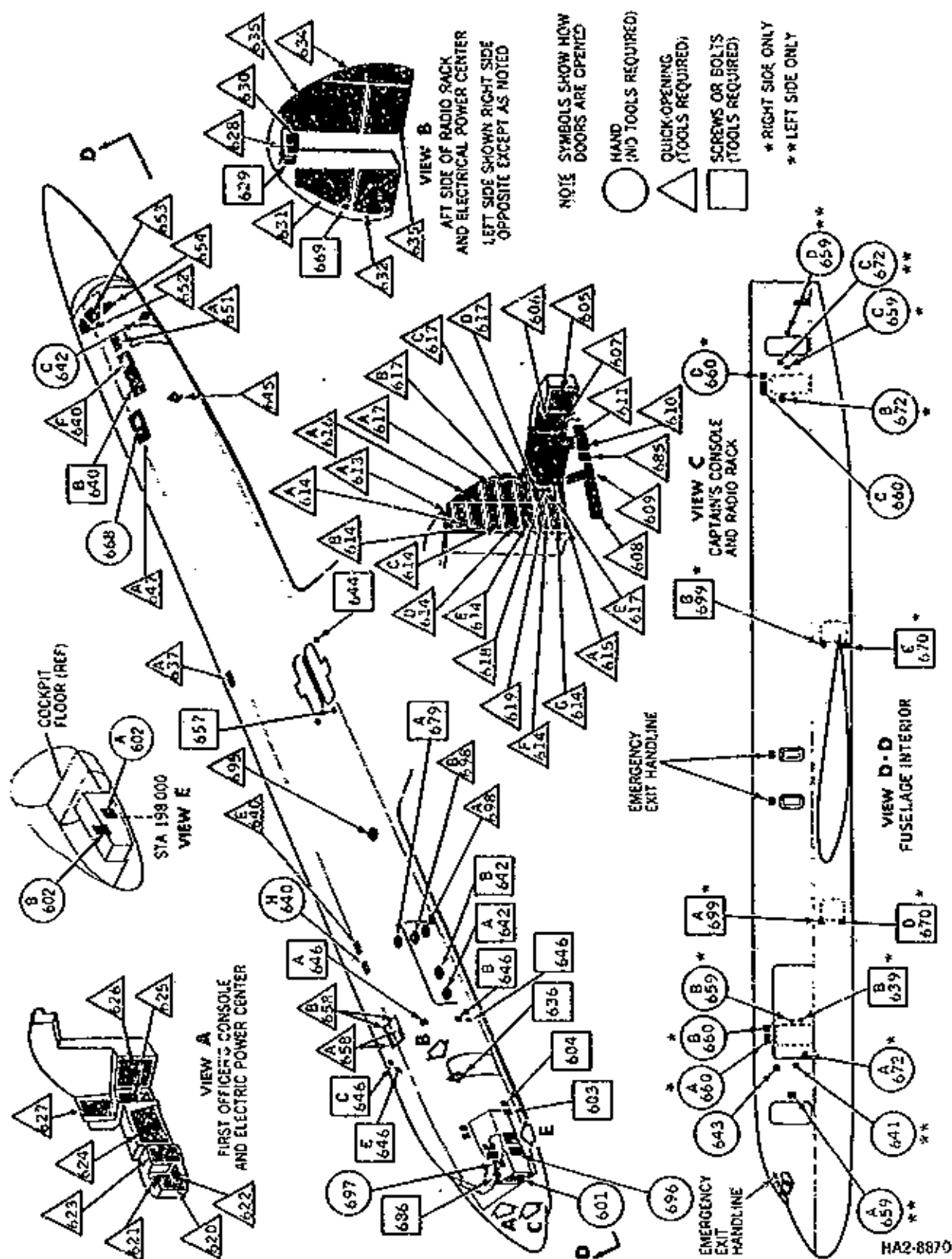
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL





DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



Access Doors -- Fuselage Interior  
 Figure 201 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614F	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	9 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	39 x 34
637A	Emergency Battery	8 1/2 x 12
*637B	Emergency Battery	8 1/2 x 12
*637C	Emergency Battery	8 1/2 x 12
*637D	Emergency Battery	8 1/2 x 12
**637E	Emergency Battery	8 1/2 x 12
639B	Attendant's Call Button	3 x 7
***640B	Aft Potable Water Tanks	21 x 78
***640E	Potable Water Fill and Overflow Valves	6 x 6
***640F	Potable Water Fill and Drain Valve	4 x 7
***640H	Water Level Gauge	4 x 8
***641	Hydraulic Control Panel	5 x 10
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24

\*Installed on NB759.

\*\*Installed on "passenger" configuration only.

\*\*\*Installed on "convertible freighter" configuration only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
642C	Washstand Piping	18 x 24
**642E	Wiring and Piping	16 Dia
**642F	Wiring and Piping	13 x 14
**642G	Wiring and Piping	16 Dia
***643	Cargo Door Hold-Open Fitting	4 x 8
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
*646A	Cargo Restraining Net Attach	10 x 51
*646B	Cargo Restraining Net Attach	7 x 10
*646C	Cargo Restraining Net Attach	10 x 20
*646D	Cargo Restraining Net Attach	7 x 14
*646E	Cargo Restraining Net Attach	14 x 15
647A	Oxygen Cylinders	37 x 54
649A	Pressure Water System Drain Valve	8 1/2 Dia
649B	Pressure Water System Drain Valve	8 1/2 Dia
651	Flight Recorder, Oxygen Cylinders	30 x 32
*651A	First Aid Oxygen Cylinders; Flight Recorder	20 x 32
*652	Water Piping	32 x 42
*653	Water Piping	34 x 46
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4

\*Installed on N8759.

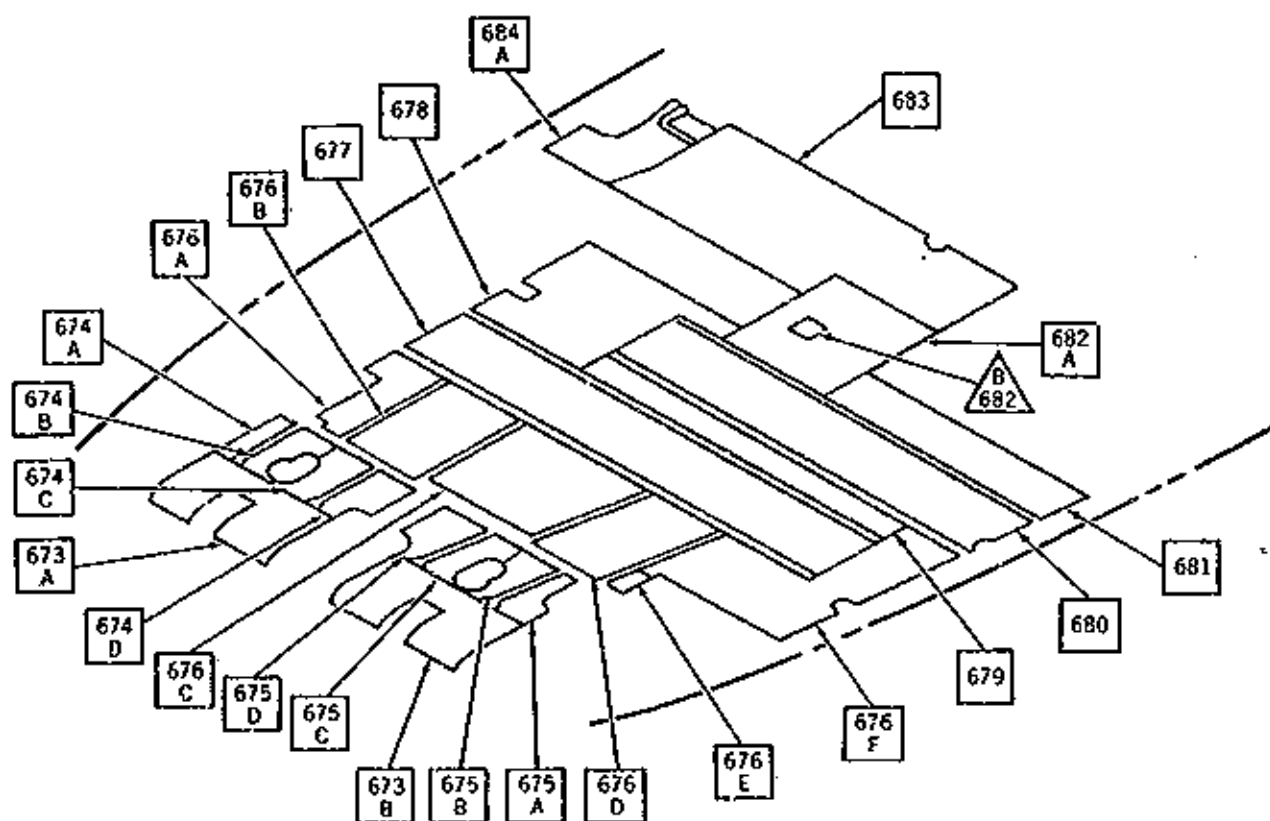
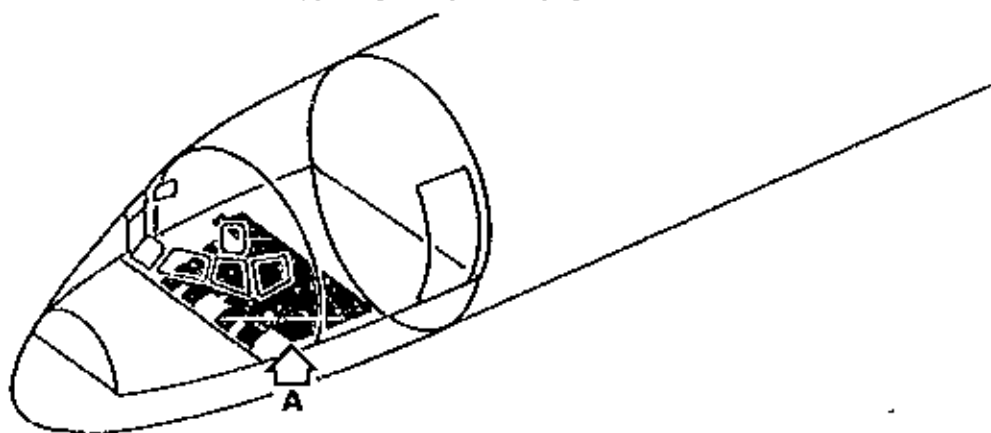
\*\*Installed on "Passenger" configuration only.

\*\*\*Installed on "convertible freighter" configuration only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 4
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
66B	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



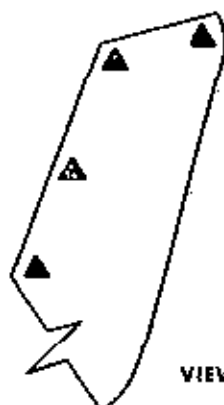
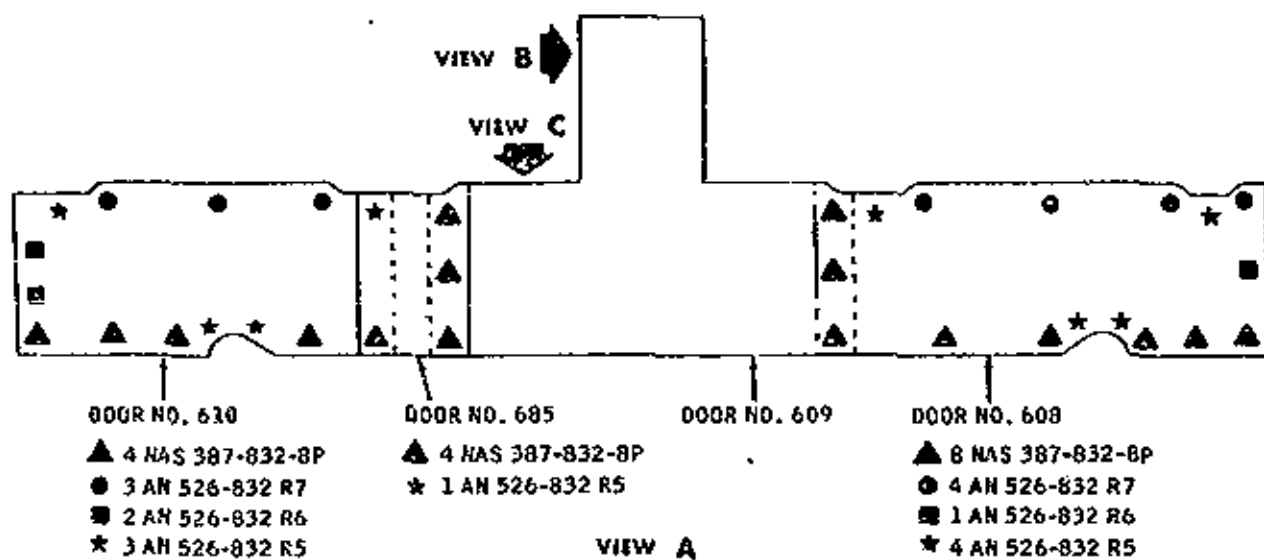
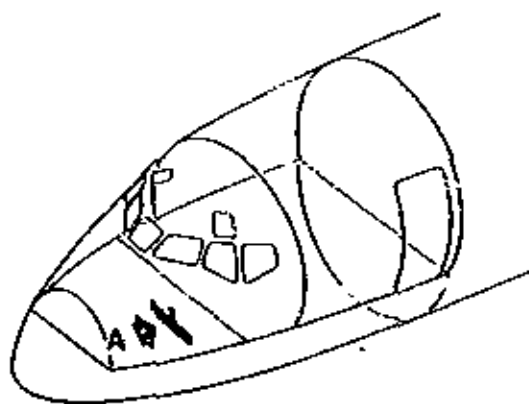
VIEW A

**NOTE:** SYMBOLS SHOW HOW  
DOORS ARE OPENED

-  HAND  
AND TOOLS REQUIRED
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

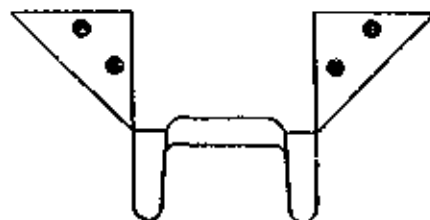
HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOOR NO. 609

- ▲ 8 NAS 387-832-10

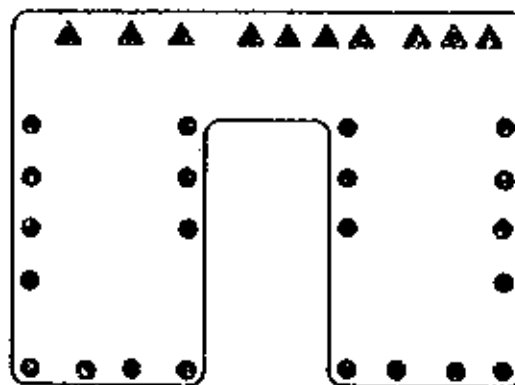
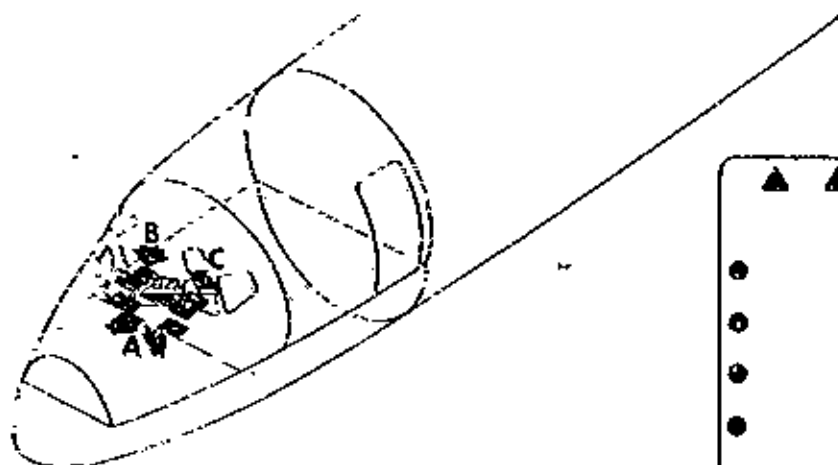


DOOR NO. 609

- 4 NAS 387-832-6

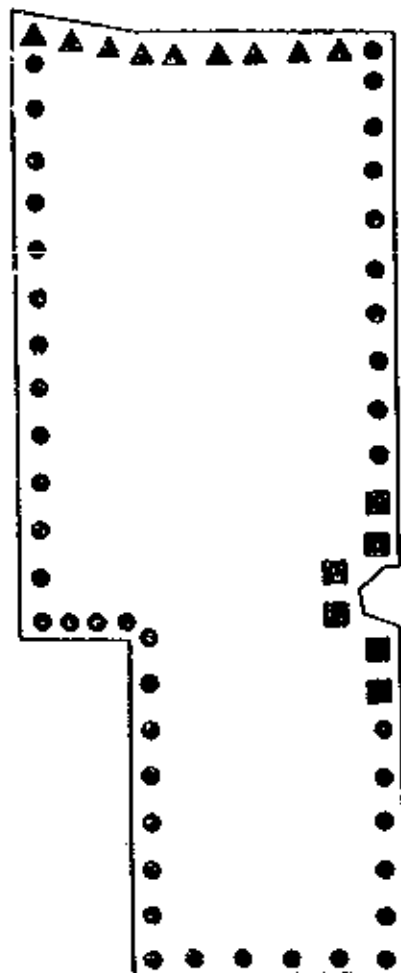
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



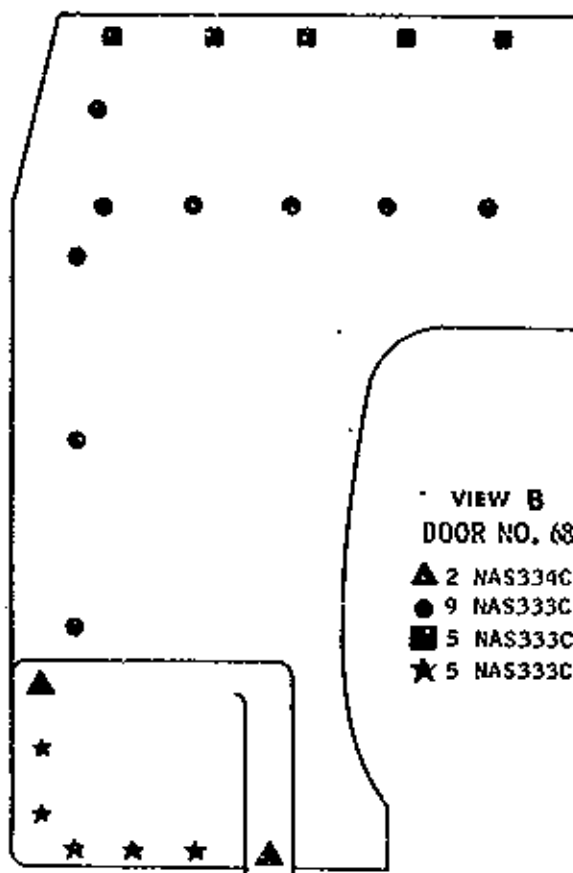
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 34 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS333CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

RA2-1459



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
*679A	Forward Yaw and Pitch Accelerometers (Located in cargo compartment ceiling)	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
**692	Accessory Compartment (from cargo compartment)	18 x 20

\*Not installed on EC-CZE or "convertible freighter configuration.

\*\*Installed on airplane N8759 only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

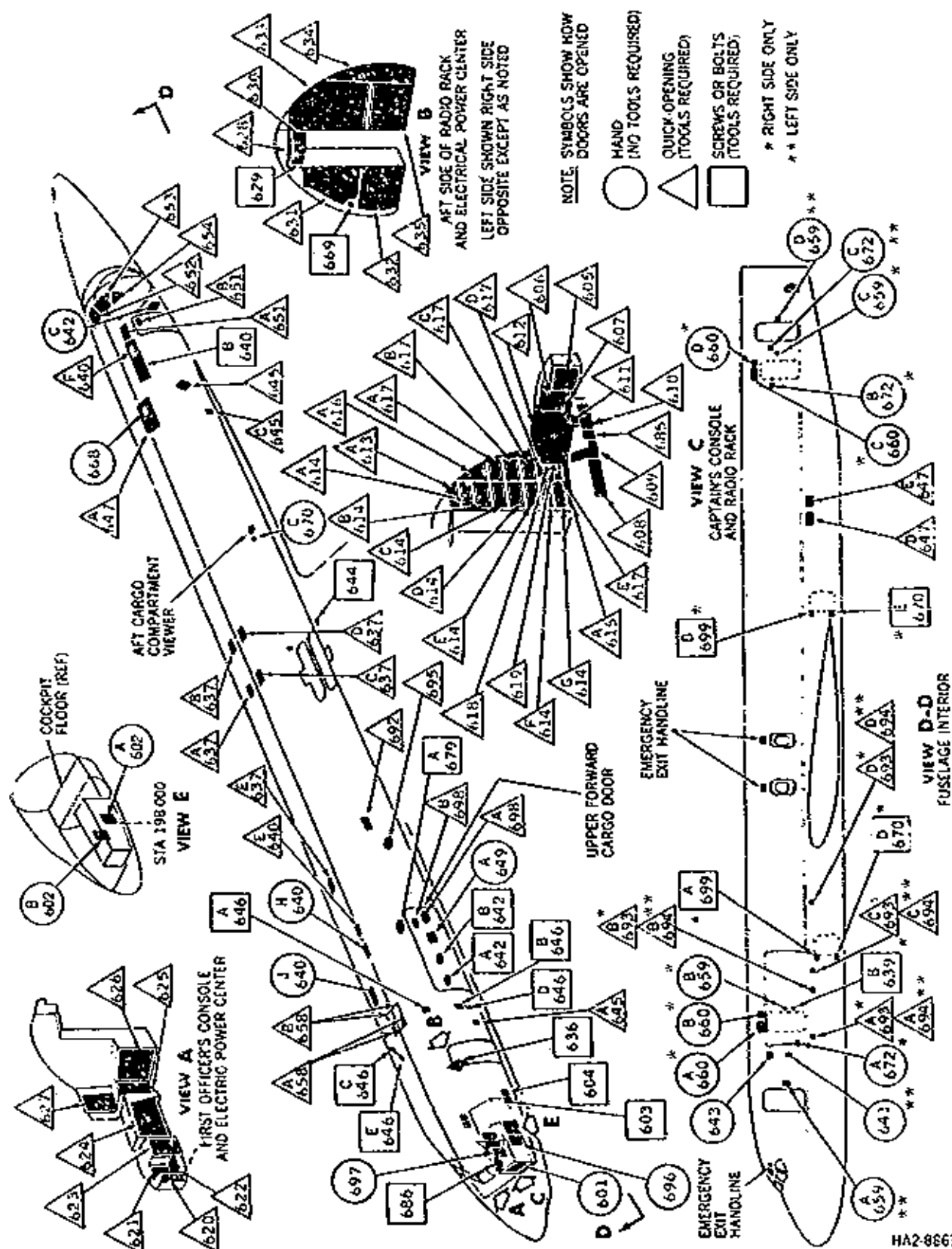
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



HA2-8663

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614F	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	9 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
637A	Emergency Battery	8 1/2 x 12
639B	Attendant's Call Button	3 x 7
640A	Forward Potable Water Tanks	26 x 80
640B	Aft Potable Water Tanks	21 x 78
640D	Potable Water Re-route Valve	6 x 6
640E	Potable Water Fill and Overflow Valves	6 x 6
640F	Potable Water Fill and Drain Valve	4 x 7
640H	Water Level Gauge	4 x 8
***641	Hydraulic Control Panel	5 x 10
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24

\*\*\*Installed on "all freighter" and "convertible freighter" configurations only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

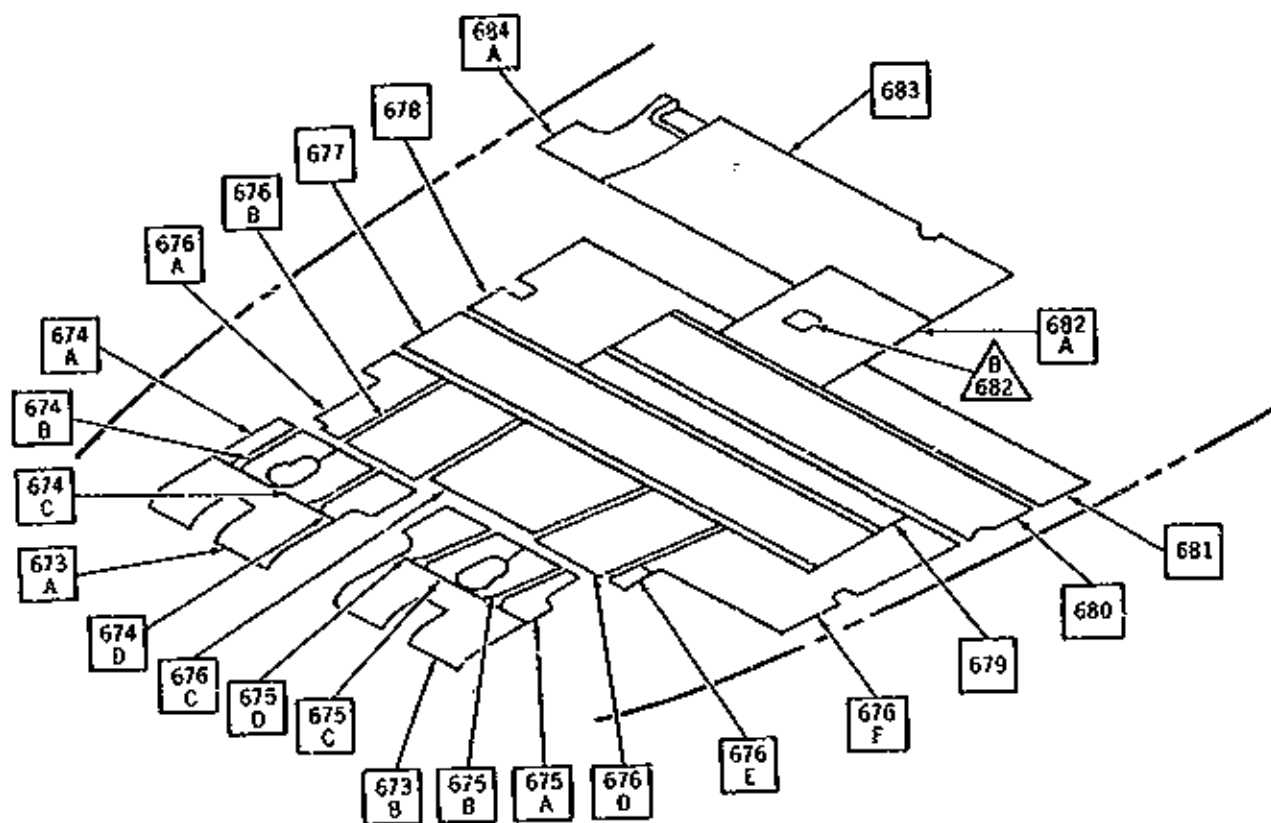
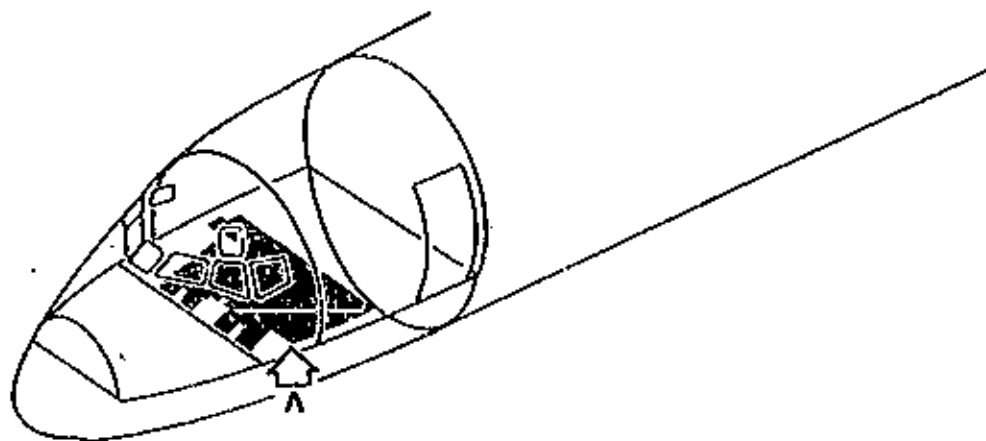
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
642C	Washstand Piping	18 x 24
*643	Cargo Door Hold-Open Fitting	4 x 8
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
645A	Forward Waste Water Drain Valve	4 x 6
645C	Aft Waste Water Drain Valve	4 x 6
647A	Oxygen Cylinders	37 x 54
651	First Aid Oxygen Cylinders; Flight Recorder	32 x 34
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42
655	Water Piping	30 x 32
658A	Cargo Restraining Net Attach	3 x 6
658B	Cargo Restraining Net Attach	9 x 20
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12

\*Installed on "all freighter" configurations only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL


ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



VIEW A

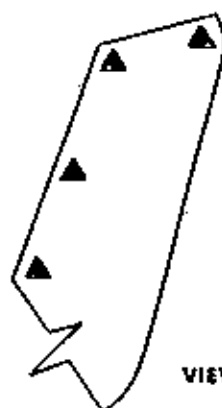
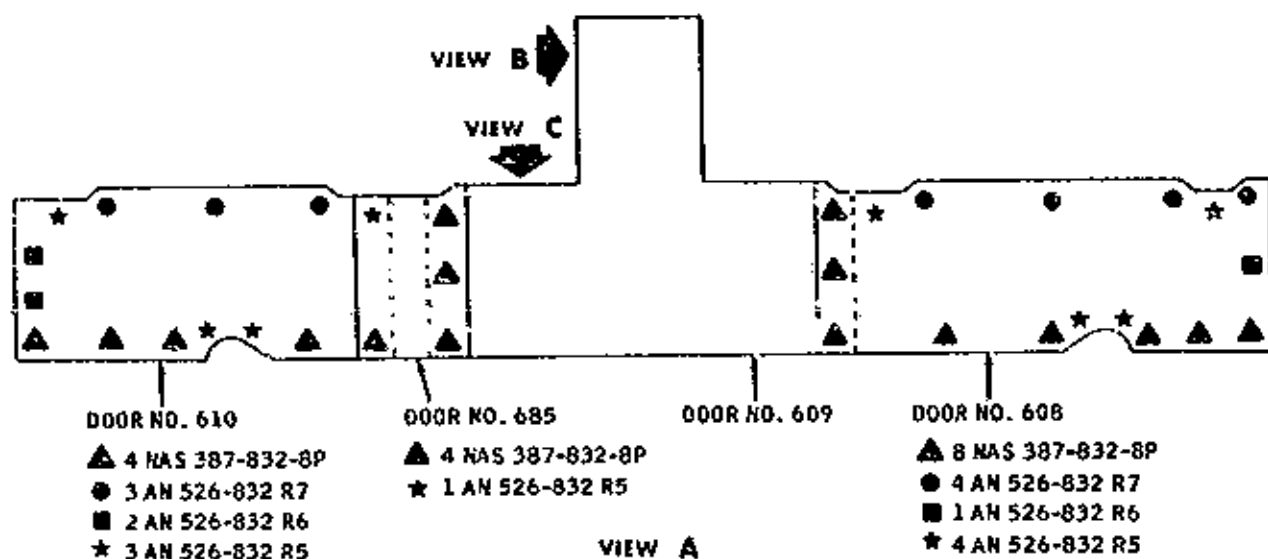
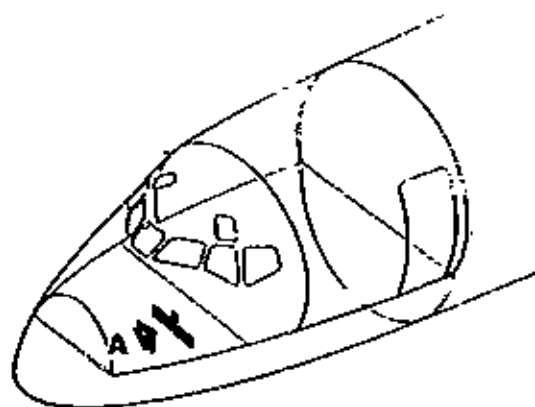
NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

-  HAND  
(NO TOOLS REQUIRED)
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

HA2-1858

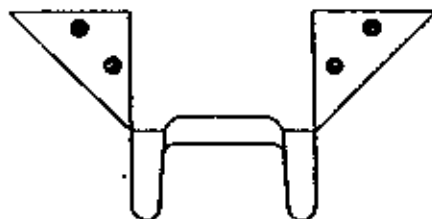


DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



**DOOR NO. 609**

- ▲ 8 NAS 387-832-10

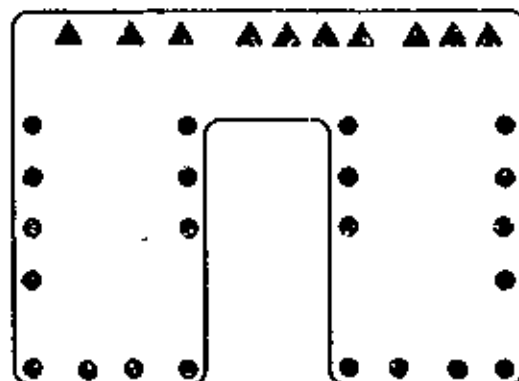
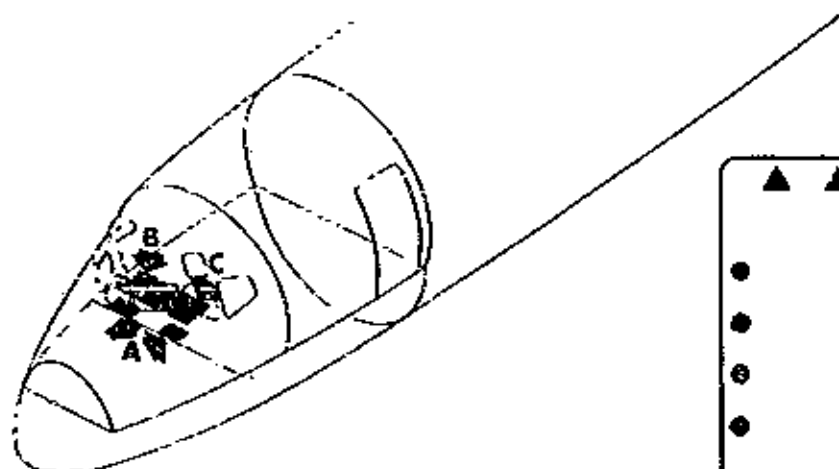


**DOOR NO. 609**

- 4 NAS 387-832-6

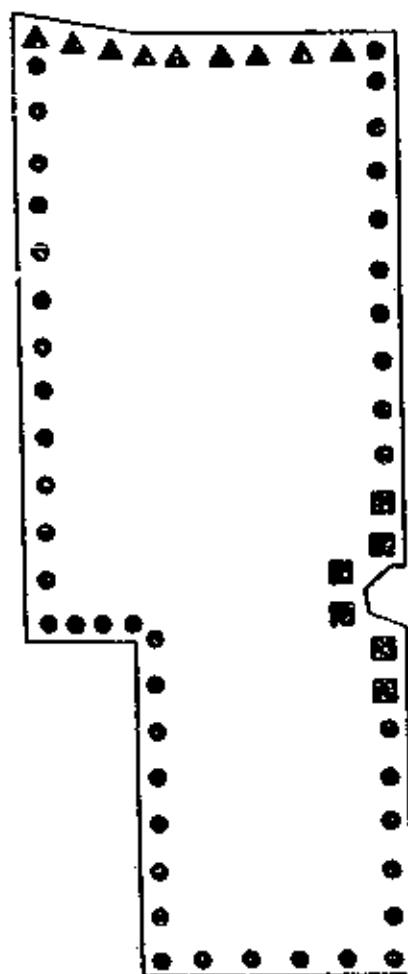
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



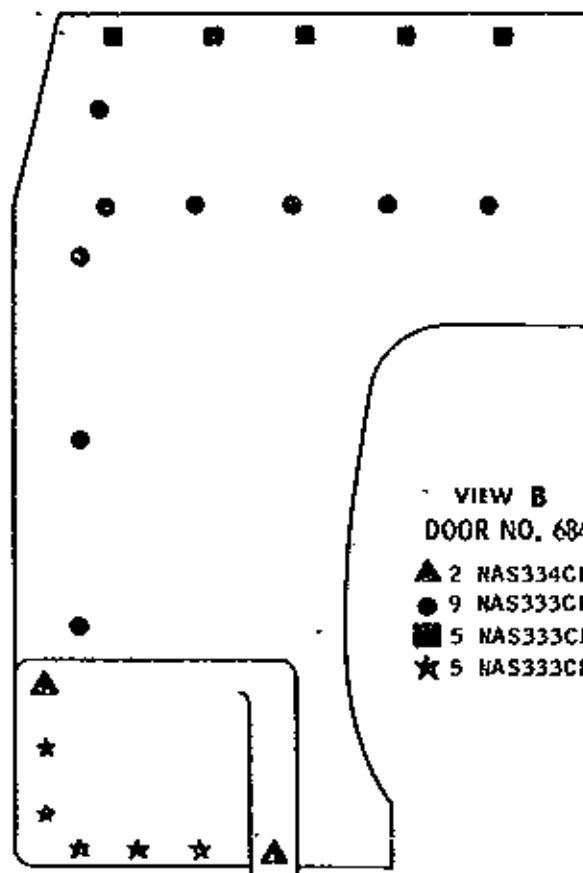
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679A	Yaw and Pitch Accelerometers (Located in cargo compartment ceiling)	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

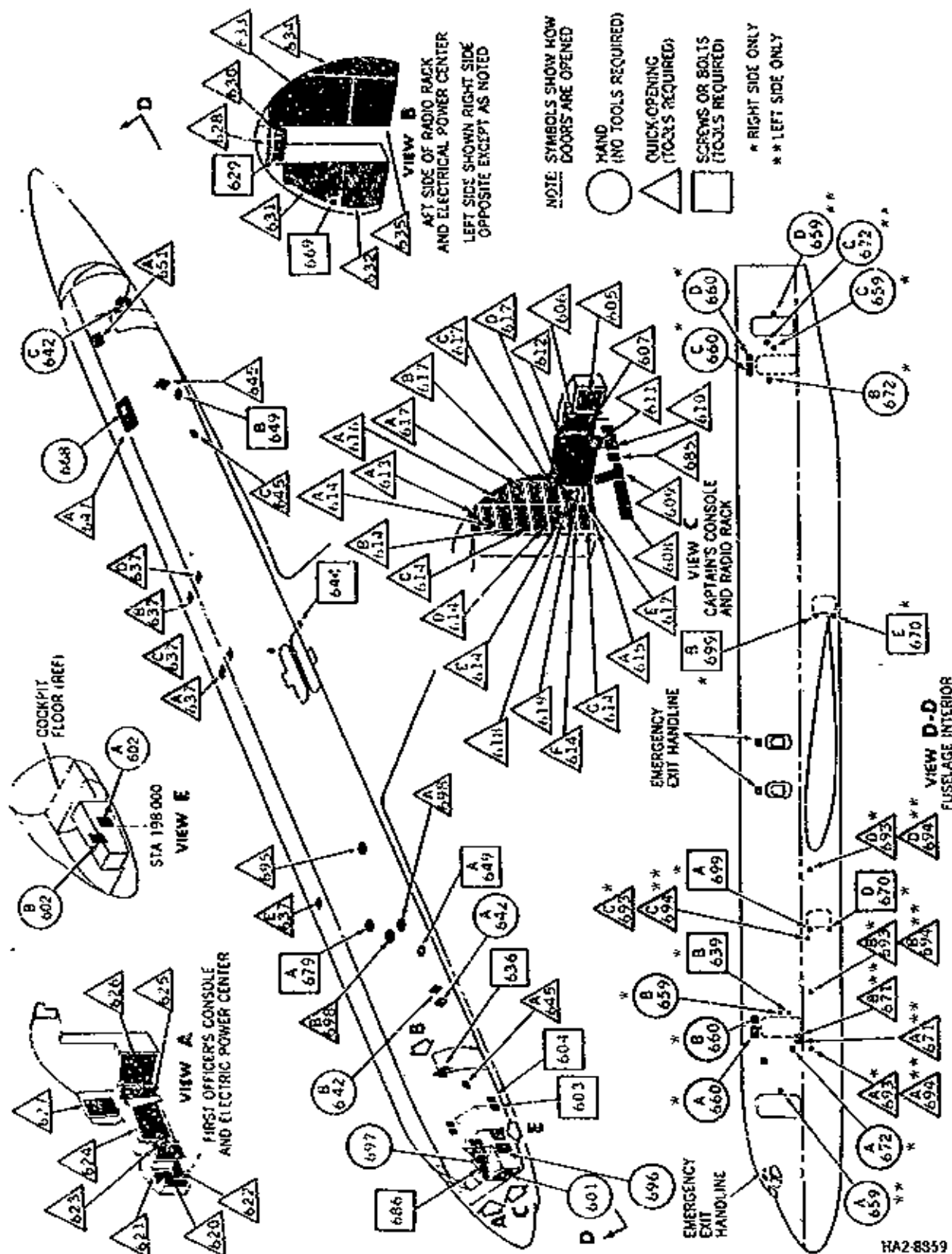
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614F	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	9 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	12 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
*637A	Emergency Battery	4 1/2 x 12
*637B	Emergency Battery	4 1/2 x 12
*637C	Emergency Battery	4 1/2 x 12
*637D	Emergency Battery	4 1/2 x 12
*637E	Emergency Battery	4 1/2 x 12
6398	Attendant's Call Button	3 x 7
641	Hydraulic Control Panel	5 x 10
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
642D	Washstand Piping	18 x 24
643	Cargo Door Hold-open Fitting	4 x 8
644	Fillet	8 1/2 x 13

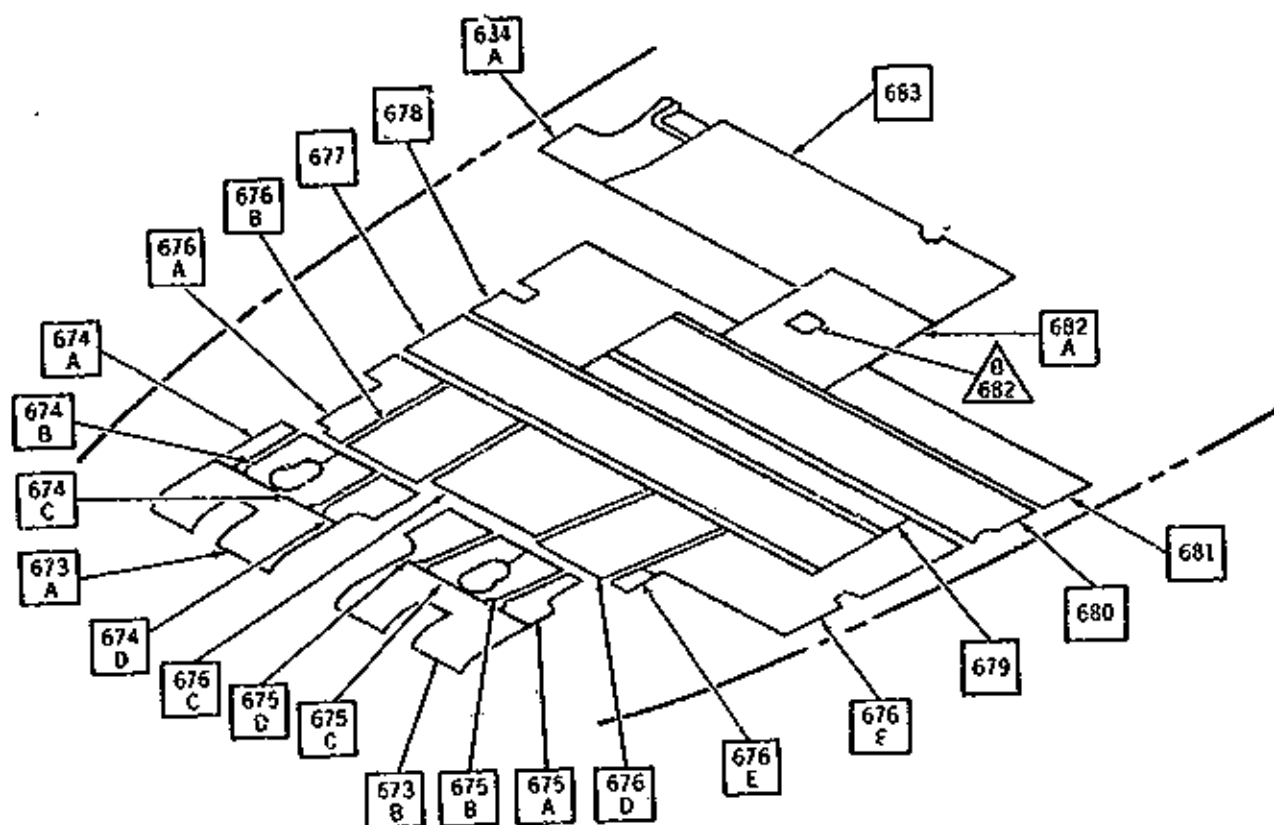
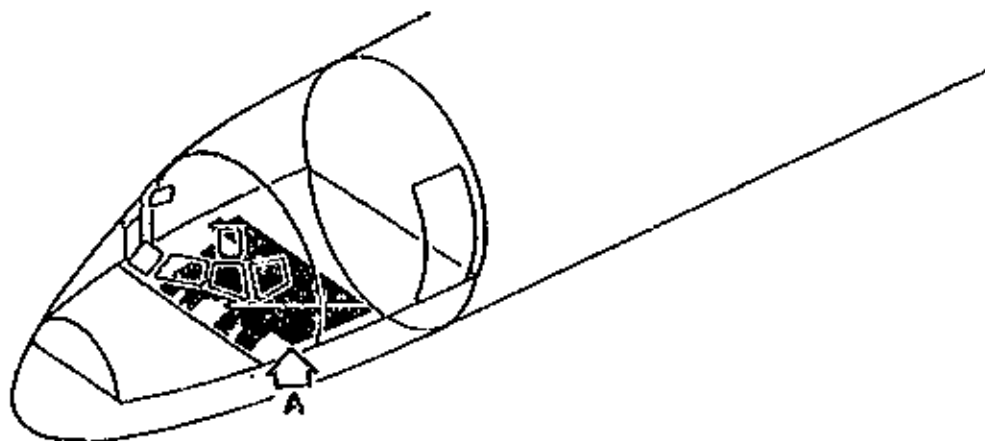
\*Not installed on airplane 46013.



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL


ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
646A	Cargo Restraining Net Attach	10 x 51
646B	Cargo Restraining Net Attach	7 x 10
646C	Cargo Restraining Net Attach	10 x 51
646D	Cargo Restraining Net Attach	7 x 14
646E	Cargo Restraining Net Attach	7 x 14
647A	Oxygen Cylinders	37 x 54
649A	Pressure Water System Drain Valve	8 1/2 Dia
649B	Pressure Water System Drain Valve	8 1/2 Dia
651A	First Aid Oxygen Cylinders; Flight Recorder	20 x 32
658A	Cargo Restraining Net Attach	3 x 6
658B	Cargo Restraining Net Attach	9 x 20
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 4
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



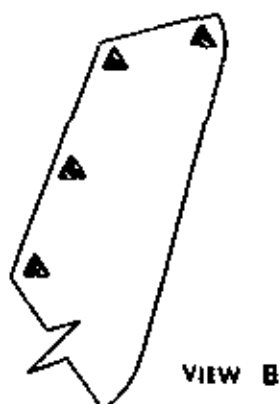
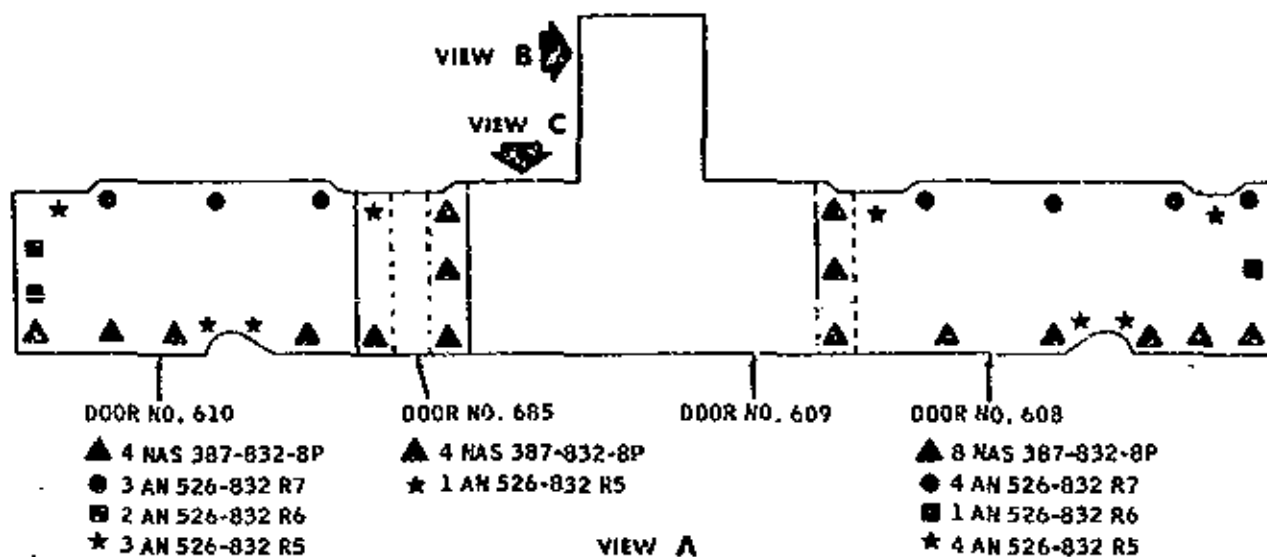
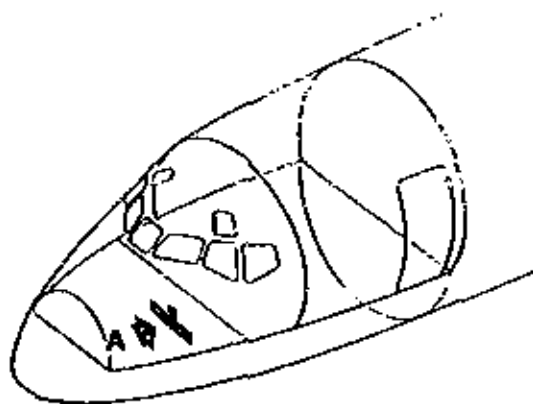
VIEW A

NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

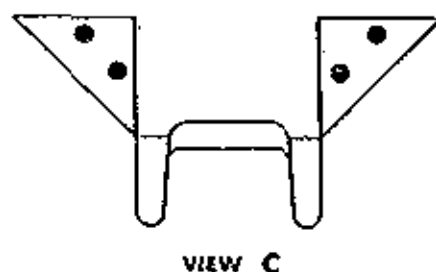
-  HAND  
AND TOOLS REQUIRED
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



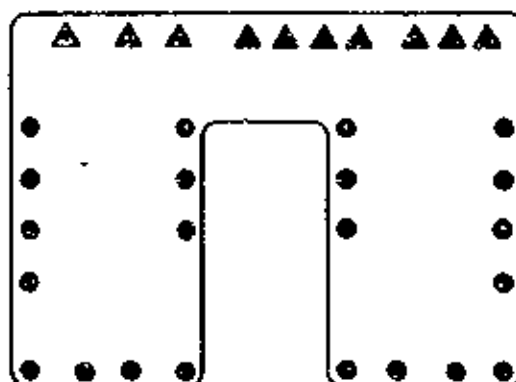
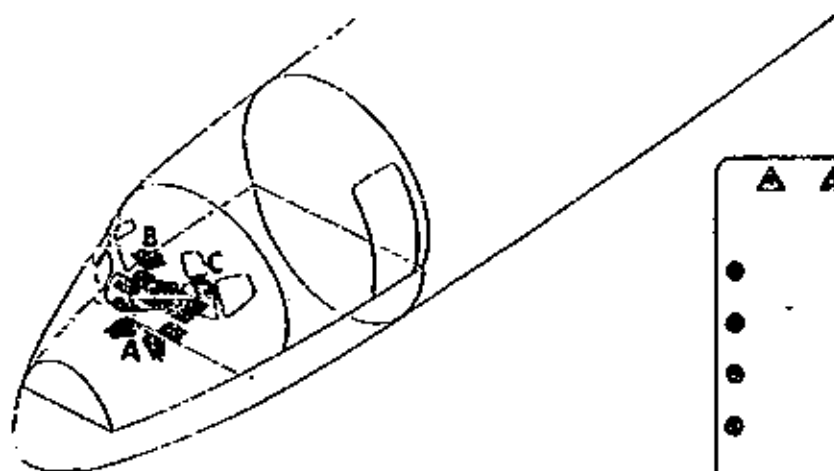
**DOOR NO. 609**  
 ▲ 8 NAS 387-832-10



**DOOR NO. 609**  
 ● 4 NAS 387-832-6

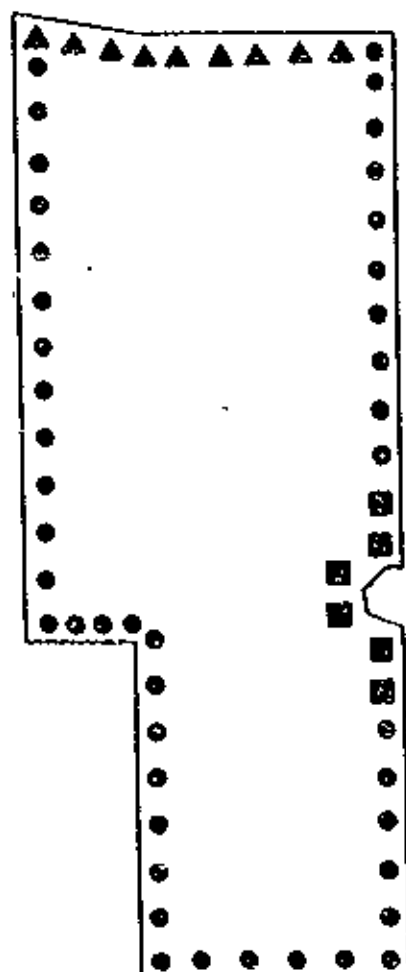
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



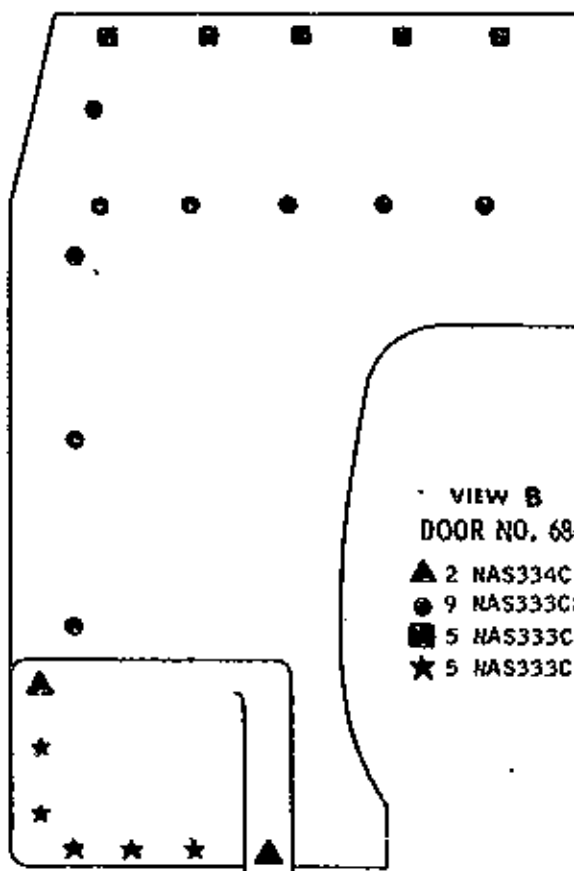
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
670E	Aft Cargo Compartment Light Switch	5 x 7
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 47
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679A	Yaw and Pitch Accelerometers (located in cargo compartment ceiling)	15 x 18

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

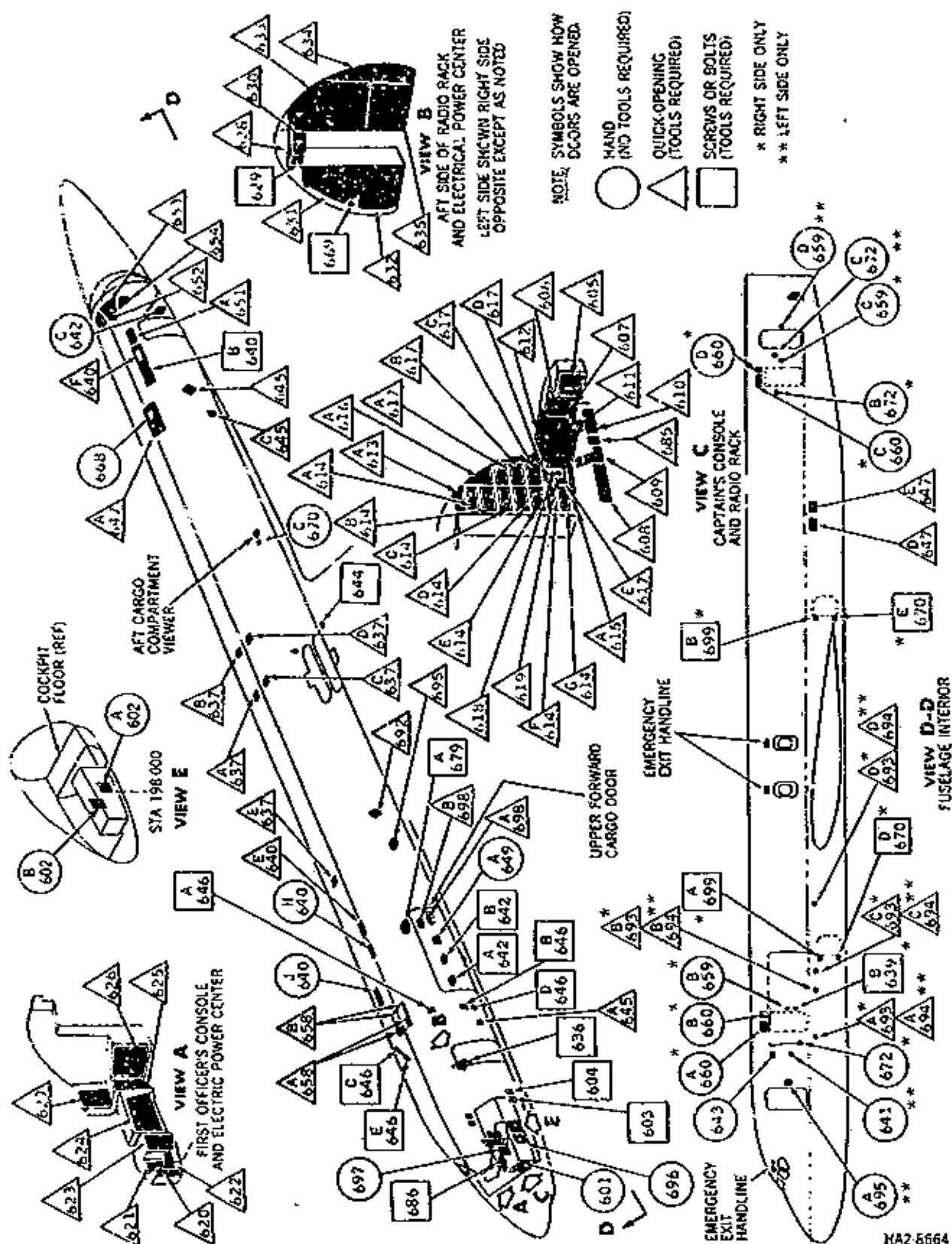
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
*692	Accessory Compartment (from cargo compartment)	18 x 20
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24

\*Installed on airplanes OH-LFR and OH-LFS Only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL





DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
**613A	Radio/Electronic Equipment	2 x 25
*614	Radio Rack	24 x 30
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614F	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	9 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22

\*Installed on airplanes 801-822 only.

\*\*Installed on airplane 860 and subsequent.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
*637A	Emergency Battery	8 1/2 x 12
637B	Emergency Battery	8 1/2 x 12
637C	Emergency Battery	8 1/2 x 12
637D	Emergency Battery	8 1/2 x 12
637E	Emergency Battery	8 1/2 x 12
639B	Attendant's Call Button	3 x 7
640A	Forward Potable Water Tanks	26 x 80
640B	Aft Potable Water Tanks	21 x 78

\*Installed on airplane CF-T1D and subsequent.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

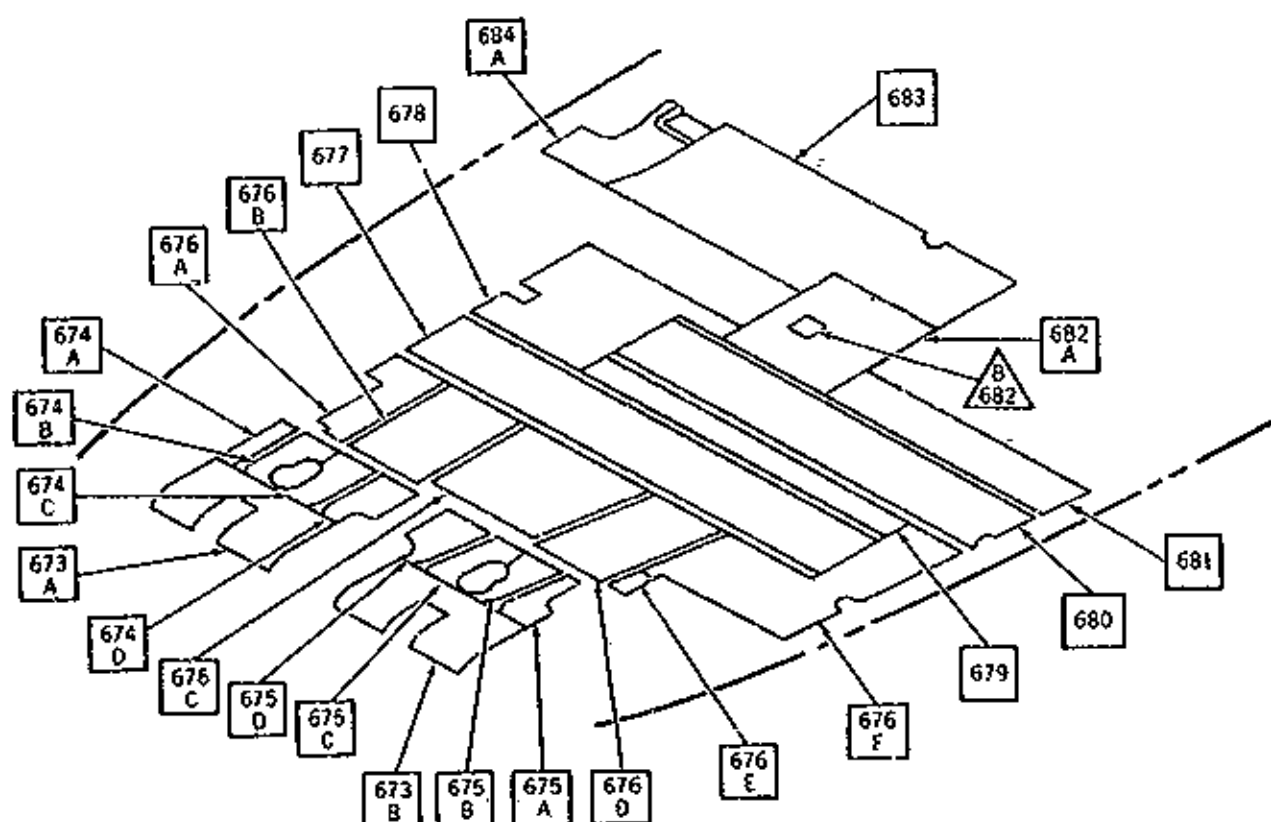
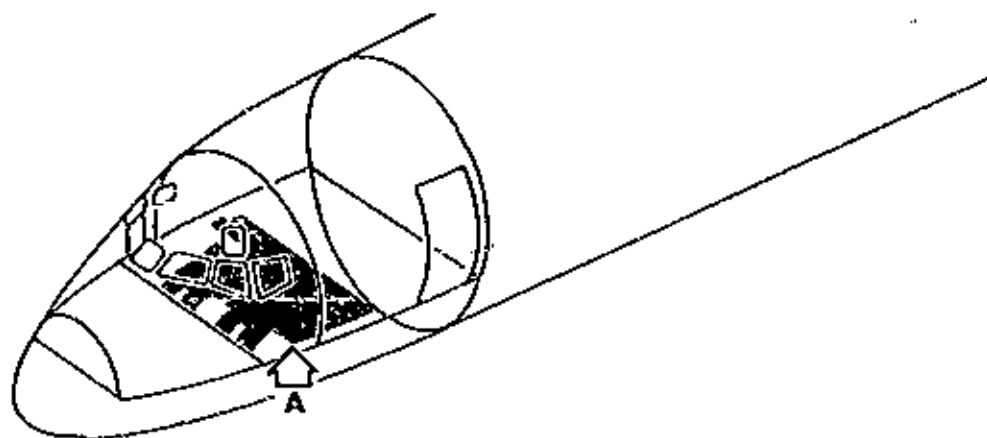
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
64DD	Galley Water Shutoff Valve	6 x 6
64DE	Potable Water Fill and Overflow Valves	6 x 6
64DF	Potable Water Fill and Drain Valve	4 x 7
64DH	Water Level Gauge	4 x 8
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
*645A	Forward Waste Water Drain Valve	4 x 6
*645C	Aft Waste Water Drain Valve	4 x 6
647A	Oxygen Cylinders	37 x 54
651A	Water Piping; First Aid Oxygen Cylinders	32 x 34
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42
655	Water Piping	30 x 32
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20

\*Installed on airplanes CF-TIP and subsequent.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
671A	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
671B	Fuselage Structure (Access for moisture and corrosion inspection)	8 x 8
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



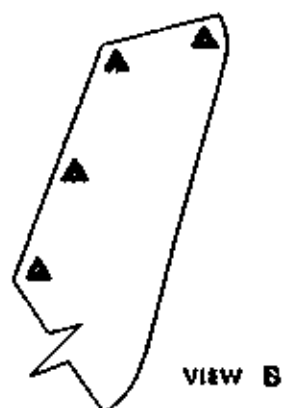
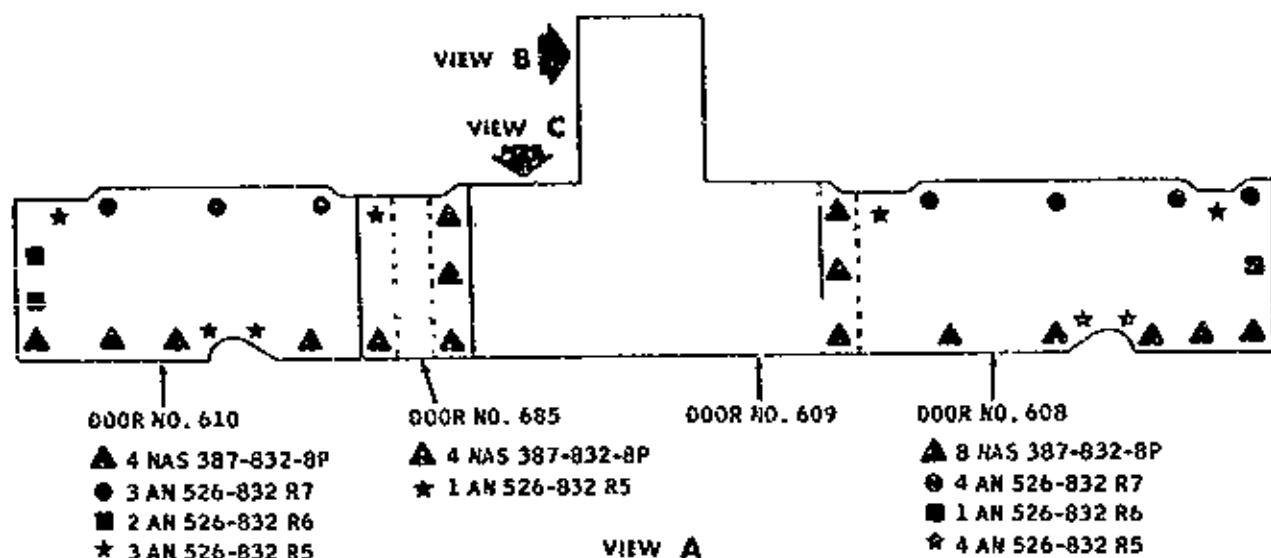
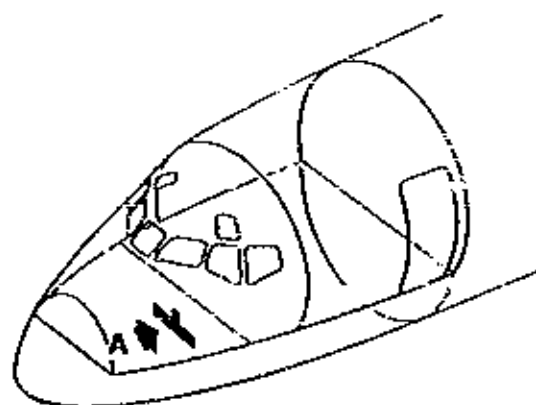
VIEW A

NOTE SYMBOLS SHOW HOW  
DOORS ARE OPENED

-  HAND  
NO TOOLS REQUIRED
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

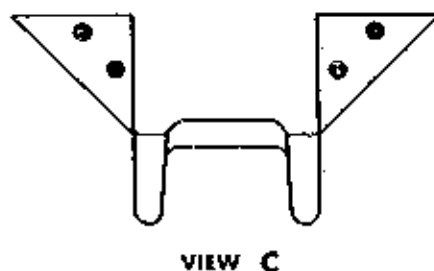
HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOOR NO. 609

- ▲ 8 NAS 387-832-10

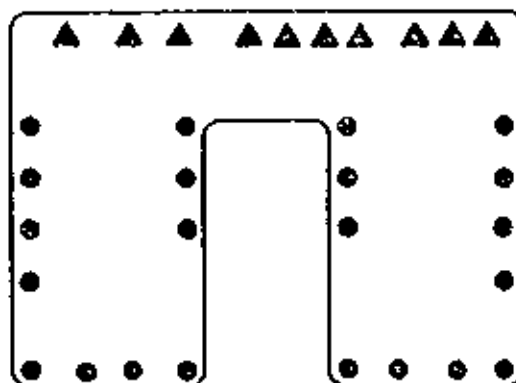
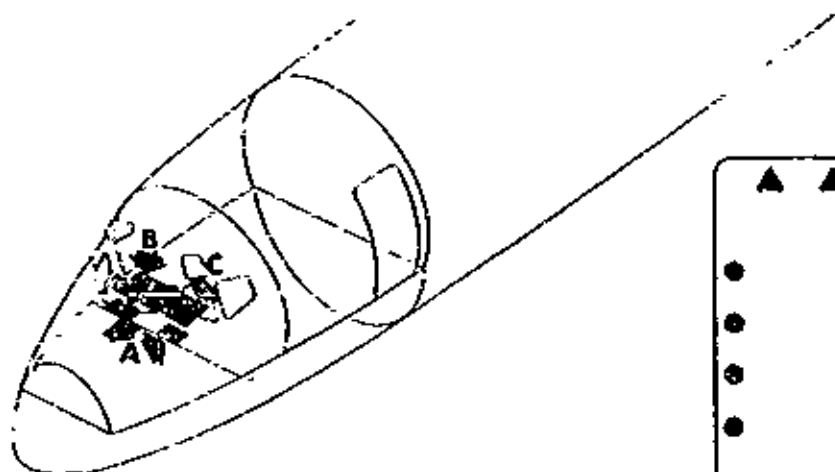


DOOR NO. 609

- 4 NAS 387-832-6

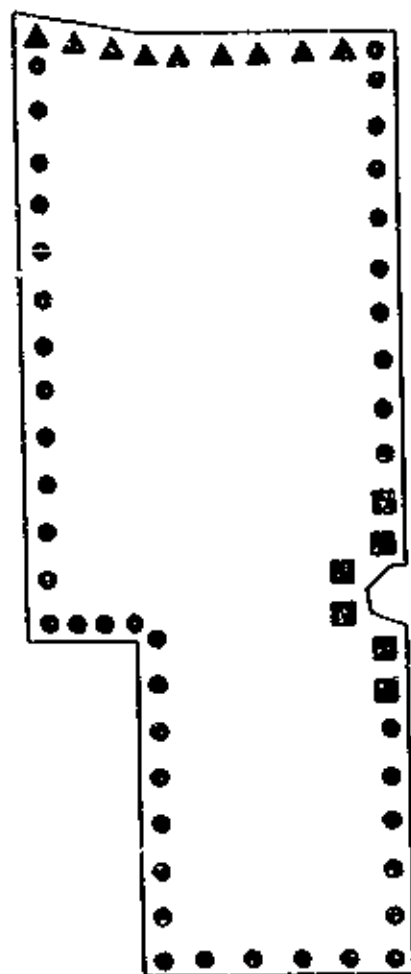
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



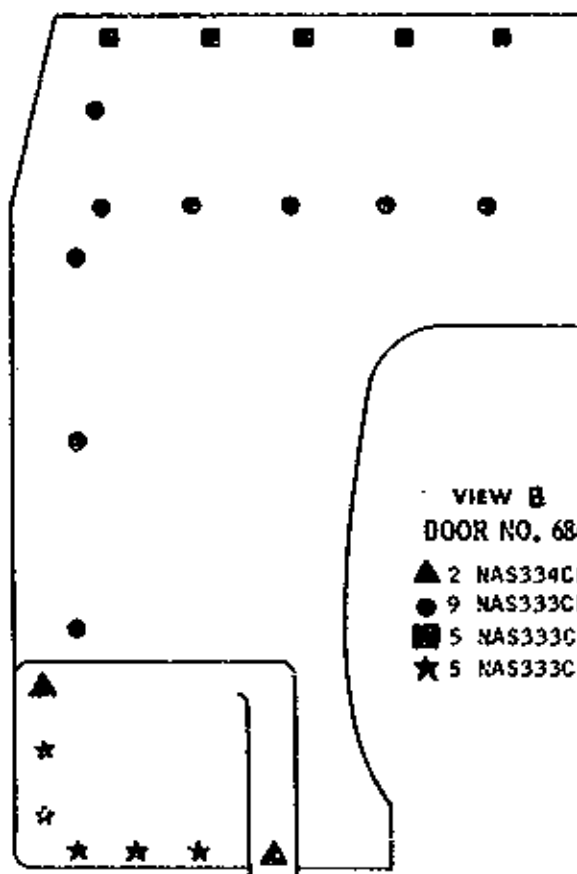
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-3R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
67A	Pipes, Cables, Wiring	18 x 22
679A	Forward Yaw and Pitch Accelerometers	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
*692	Accessory Compartment (from cargo compartment)	18 x 20
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

\*Installed on airplane CF-TIK only.



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

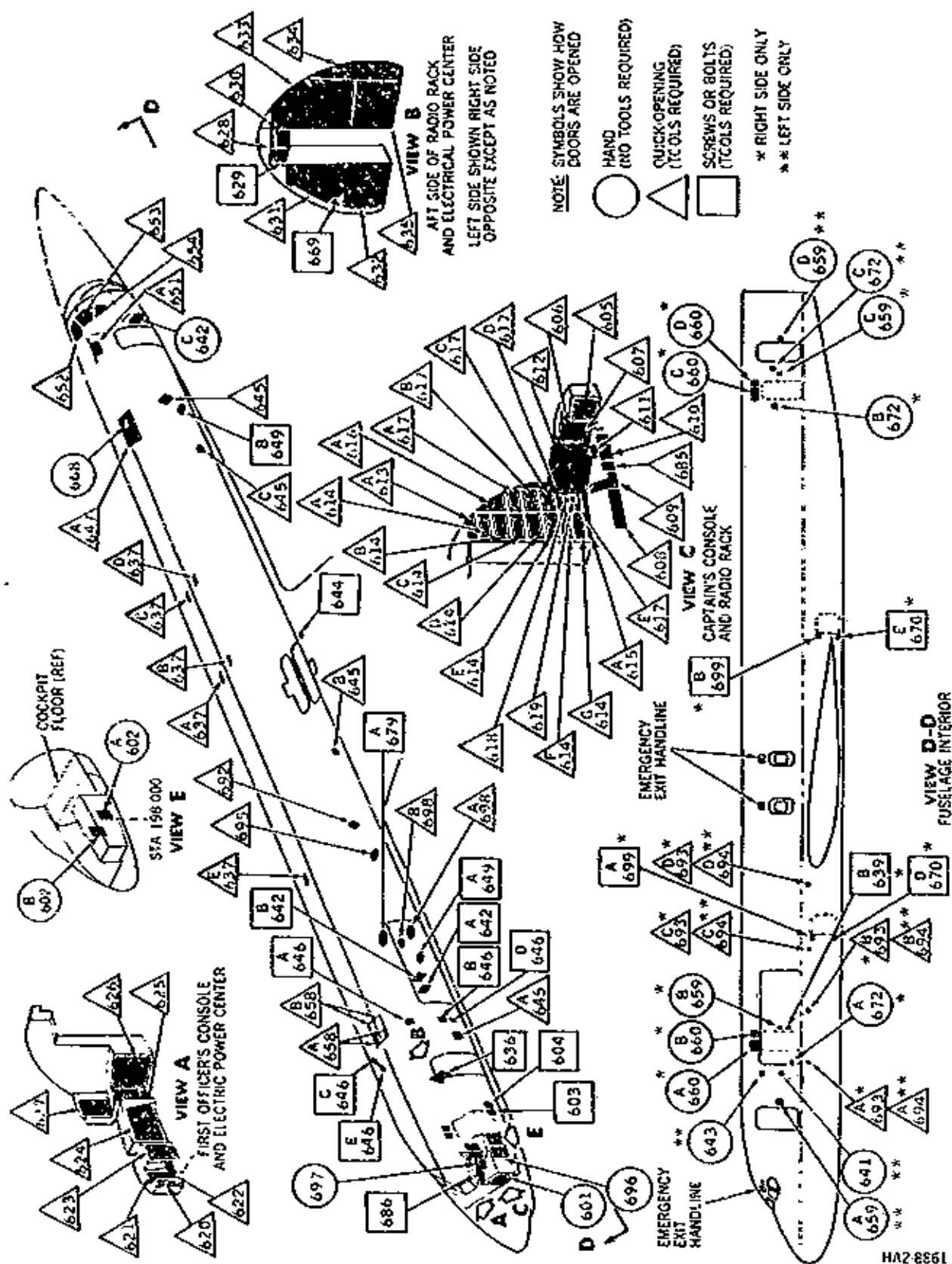
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613	Radio Rack	5 x 15
614	Radio Rack	24 x 30
615	Radio Rack	24 x 41

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
616	Radio Rack	10 x 30
617	Radio Rack	18 x 41
618	Wiring	8 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
*637A	Emergency Battery	4 1/2 x 12

\*Installed on airplane N911CL.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
*637B	Emergency Battery	4 1/2 x 12
*637C	Emergency Battery	4 1/2 x 12
*637D	Emergency Battery	4 1/2 x 12
*637E	Emergency Battery	4 1/2 x 12
639B	Attendant's Call Button	3 x 7
640B	Aft Potable Water Tanks	21 x 78
640E	Potable Water Fill and Overflow Valves	6 x 6
640F	Potable Water Fill and Drain Valve	5 x 7
640H	Water Level Gauge	4 x 8
640J	Potable Water Re-route Valve	5 x 5
641	Hydraulic Control Panel	5 x 10
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
643	Cargo Door Hold-open Fitting	4 x 8
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
*645A	Forward Waste Water Drain Valve	4 x 6
*645C	Aft Waste Water Drain Valve	4 x 6
646A	Cargo Restraining Net Attach	10 x 51
*646B	Cargo Restraining Net Attach	7 x 10
*646C	Cargo Restraining Net Attach	10 x 51
646D	Cargo Restraining Net Attach	7 x 14

\*Installed on airplane N911CL.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

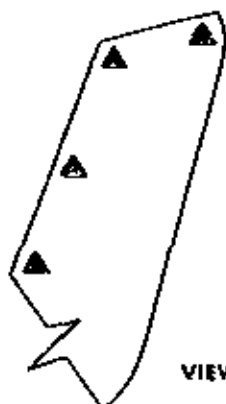
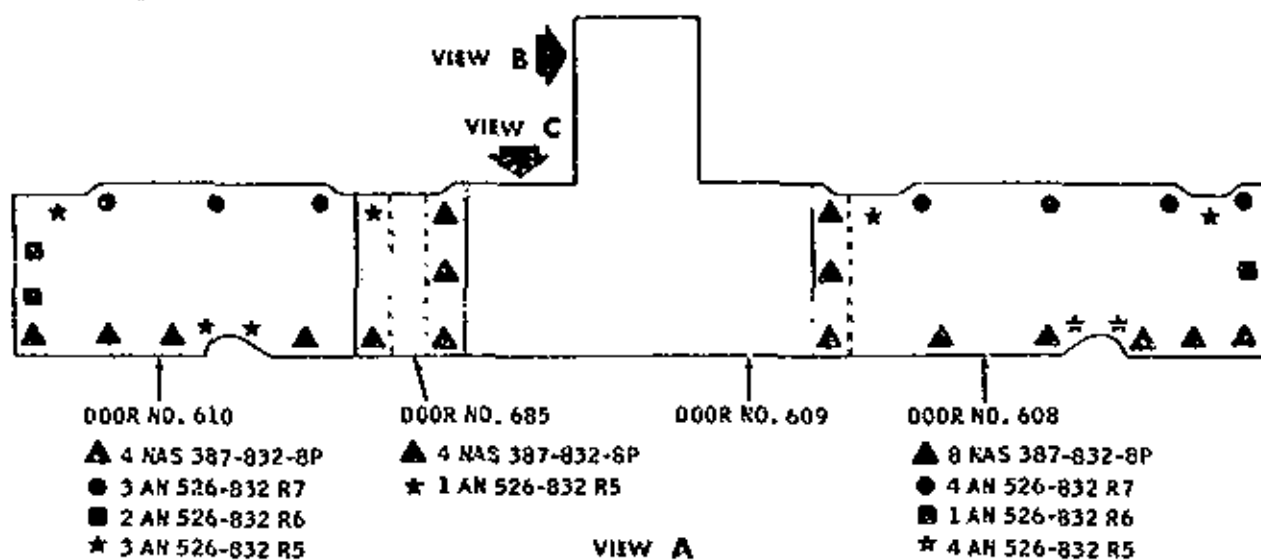
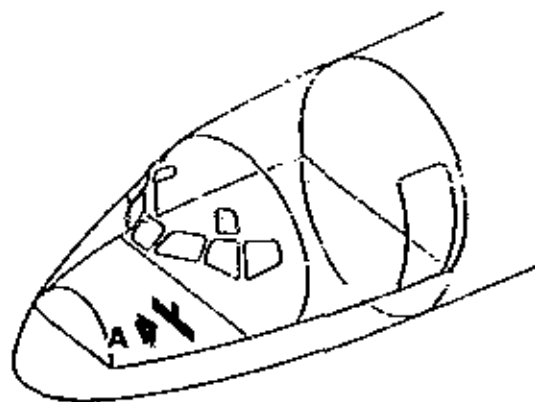
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
646E	Cargo Restraining Net Attach	10 x 50
647A	Oxygen Cylinders	37 x 54
*647D	Crew Spare Oxygen Stowage	17 x 40
*647E	Crew Spare Oxygen Stowage	17 x 40
649A	Forward Potable Water System Drain Valve	5 x 7
651A	First Aid Oxygen Cylinders; Flight Recorder	20 x 32
651B	Oxygen Cylinders and Flight Recorder (Emergency access through aft lavatory when cargo is aboard.)	12 x 27
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42
655	Piping	30 x 32
658A	Cargo Restraining Net Attach	3 x 6
658B	Cargo Restraining Net Attach	9 x 20
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12

\*Installed on airplane N911CL.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

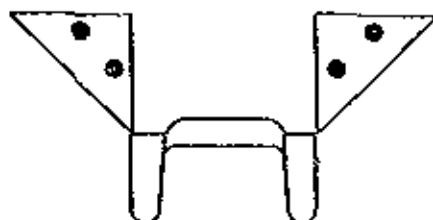
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOOR NO. 609

- ▲ 8 NAS 387-832-10



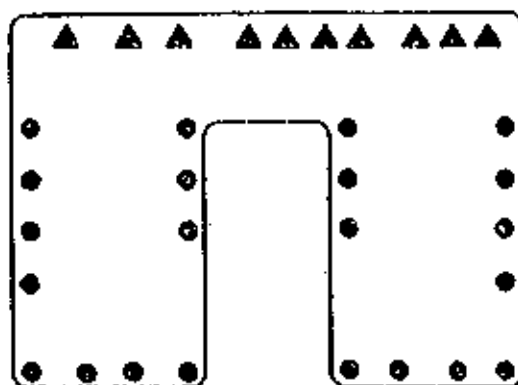
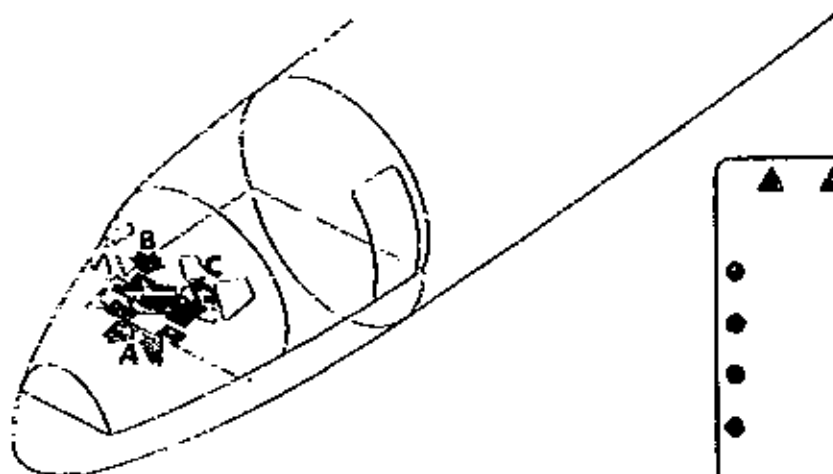
DOOR NO. 609

- 4 NAS 387-832-6

HA2-1464

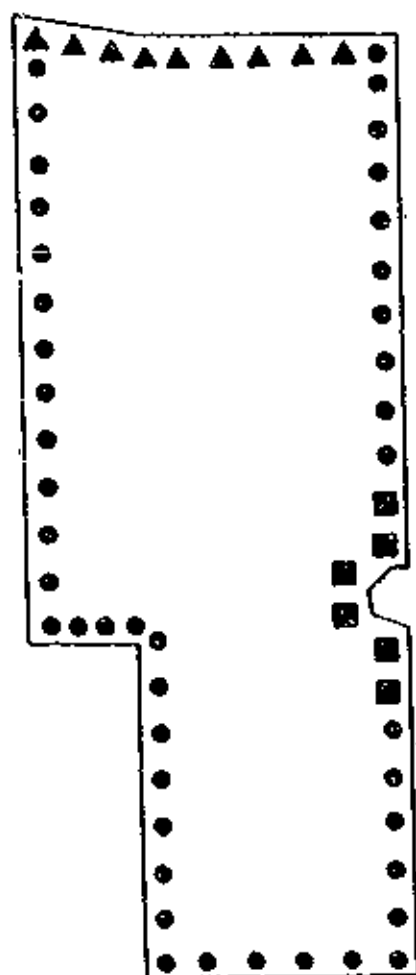


DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



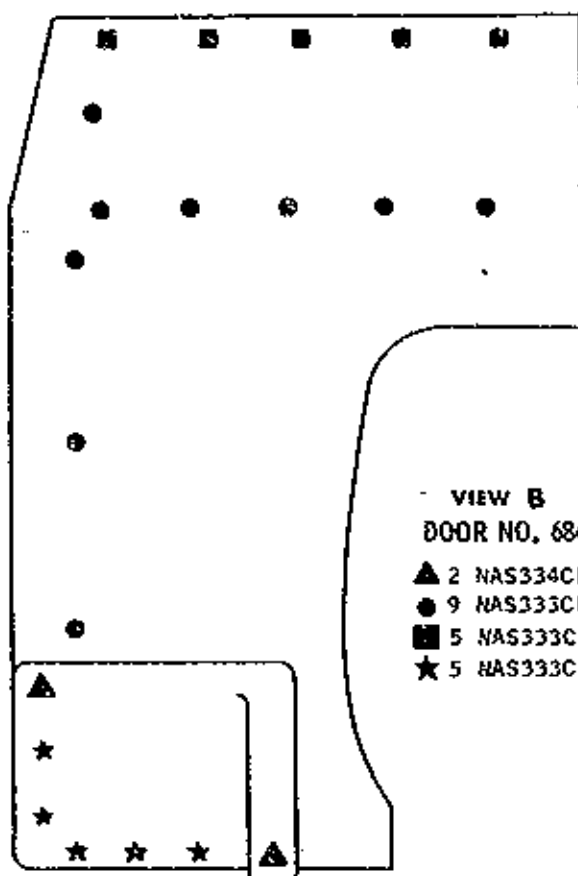
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679	No Access	
679A	Yaw and Pitch Accelerometers	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684A	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
692	Accessory Compartment	18 x 20
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

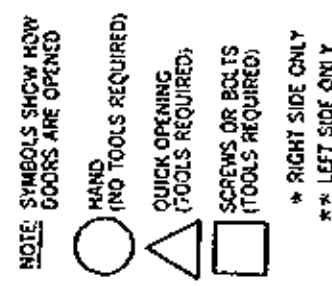
1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613	Radio Rack	5 x 15
614	Radio Rack	24 x 30
615	Radio Rack	24 x 41

DC-8 SEVENTY SERIES

MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
616	Radio Rack	18 x 30
617	Radio Rack	18 x 41
618	Wiring	8 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
637A	Emergency Battery	8 1/2 x 12

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
*637B	Emergency Battery	4 1/2 x 12
*637C	Emergency Battery	4 1/2 x 12
*637D	Emergency Battery	4 1/2 x 12
**639B	Attendant's Call Button	3 x 7
**640B	Aft Potable Water Tanks	21 x 78
**640E	Potable Water Fill and Overflow Valves	6 x 6
**640F	Potable Water Fill and Drain Valve	5 x 7
**640H	Water Level Gauge	4 x 8
**640J	Potable Water Re-route Valve (Located in forward coatroom ceiling)	6 x 6
641	Hydraulic Control Panel	5 x 10
**642A	Washstand Piping	18 x 24
**642B	Washstand Piping	18 x 24
**642C	Washstand Piping	18 x 24
643	Cargo Door Hold-open Fitting	4 x 8
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
***645A	Forward Waste Water Drain Valve	4 x 6
***645C	Aft Waste Water Drain Valve	4 x 6
646A	Cargo Restraining Net Attach	10 x 51
646B	Cargo Restraining Net Attach	7 x 10

\*Installed on airplane N791FT and subsequent.

\*\*Installed on "convertible freighter" configuration only.

\*\*\*Installed on airplane N794FT and subs.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
646C	Cargo Restraining Net Attach	10 x 51
646D	Cargo Restraining Net Attach	7 x 14
646E	Cargo Restraining Net Attach	10 x 58
**647	Oxygen Cylinders	37 x 54
***647C	Oxygen Cylinders	28 x 32
***647D	Crew Spare Oxygen Stowage	17 x 40
***647E	Crew Spare Oxygen Stowage	17 x 40
649A	Forward Potable Water System Drain Valve	5 x 7
**651	Water Piping	21 x 41
†651A	First Aid Oxygen cylinders; Flight Recorder	20 x 32
**652	Water Piping	32 x 42
**653	Water Piping	34 x 46
**654	Water Piping	32 x 42
658A	Cargo Restraining Net Attach	9 x 12
658B	Cargo Restraining Net Attach	9 x 12
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12

\*\*Installed on "convertible freighter" configuration only.

\*\*\*Installed on airplane N83FT and subsequent.

†Installed on airplanes N791FT-N796FT.

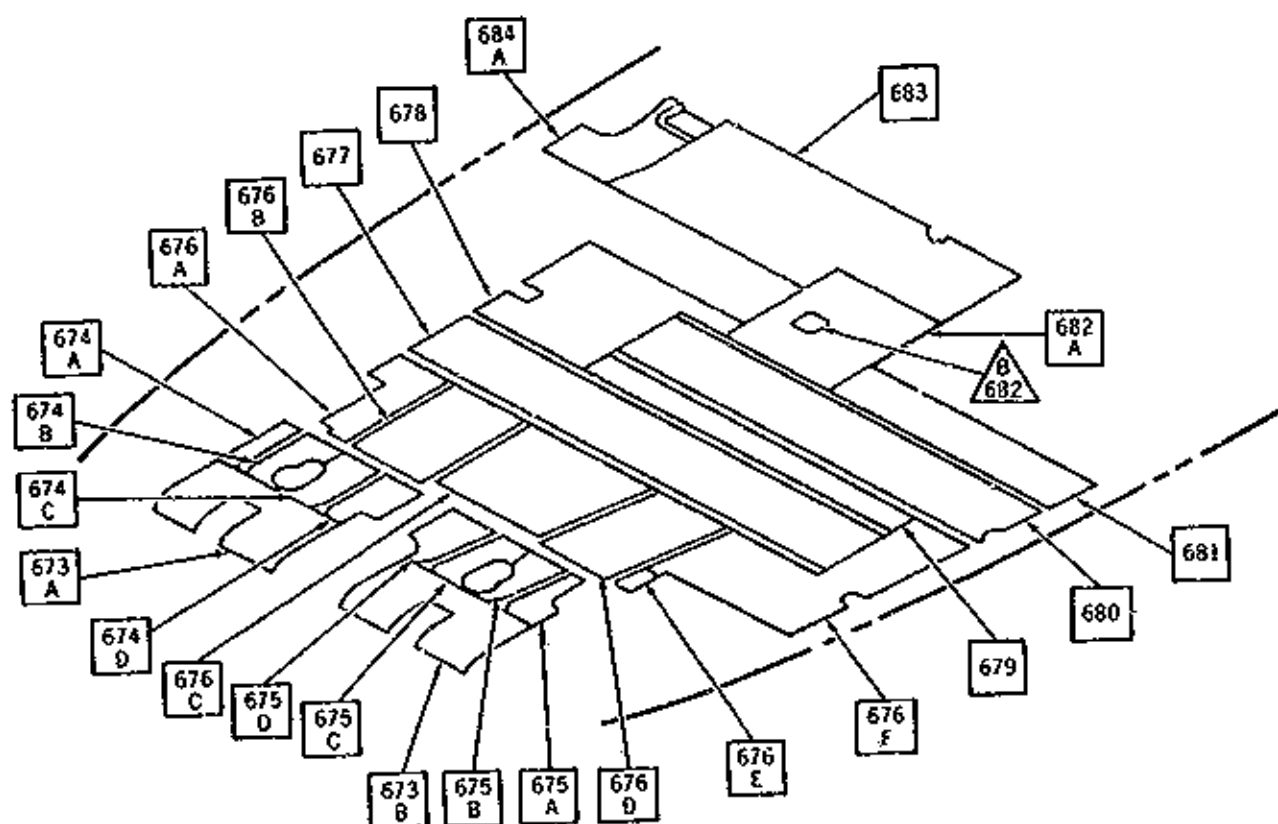
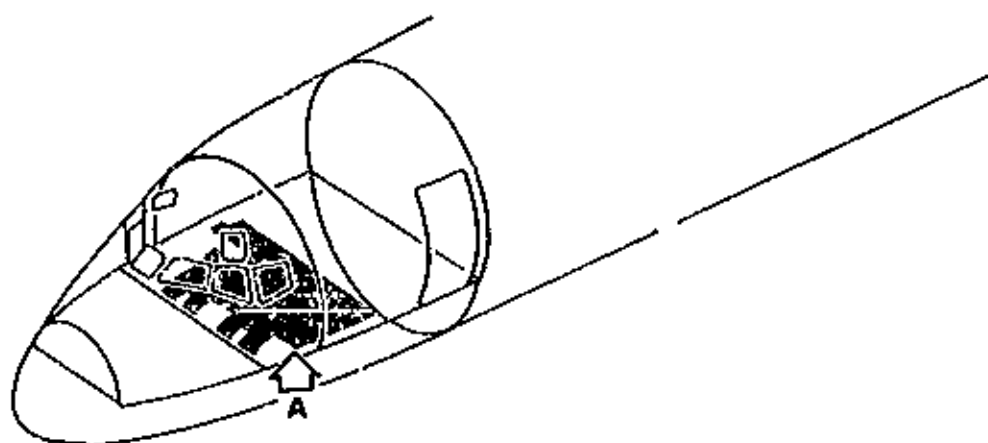


DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
**660C	Aft Cabin Electrical Panel	11 x 20
**660D	Aft Cabin Electrical Panel	11 x 12
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20




\*\*Installed on "convertible freighter" configuration only.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

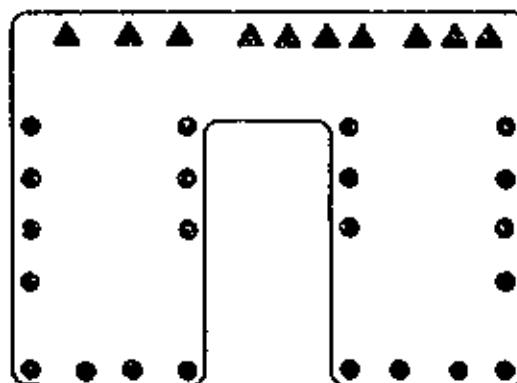
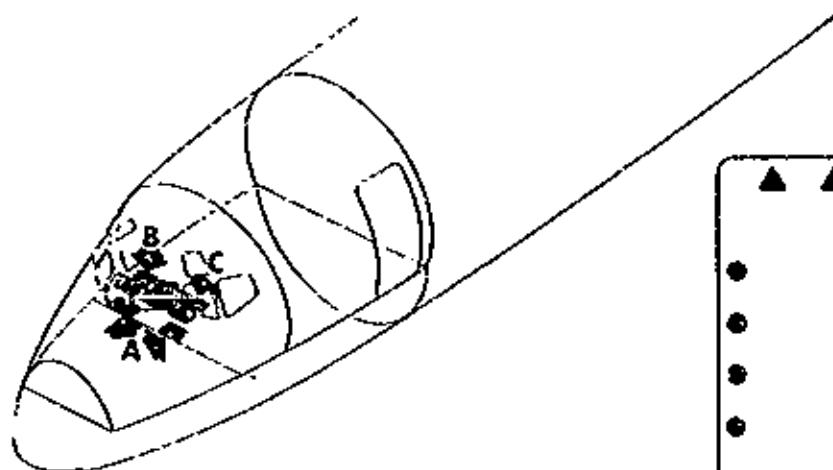


VIEW A

NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

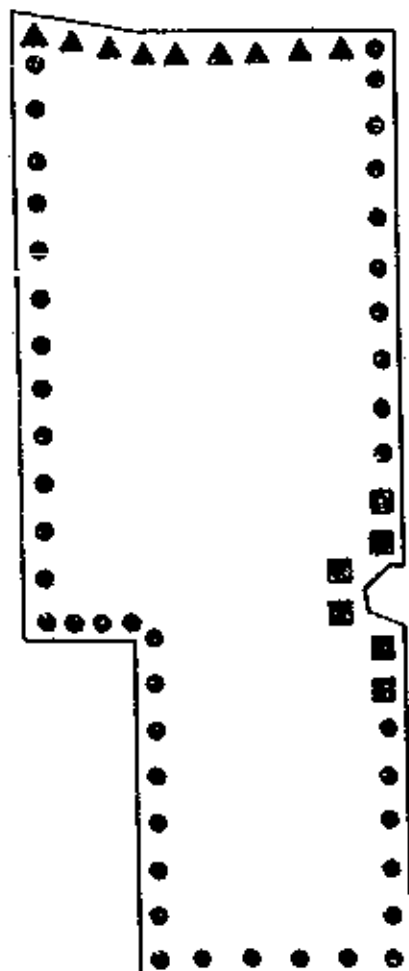
-  HAND  
(NO TOOLS REQUIRED)
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



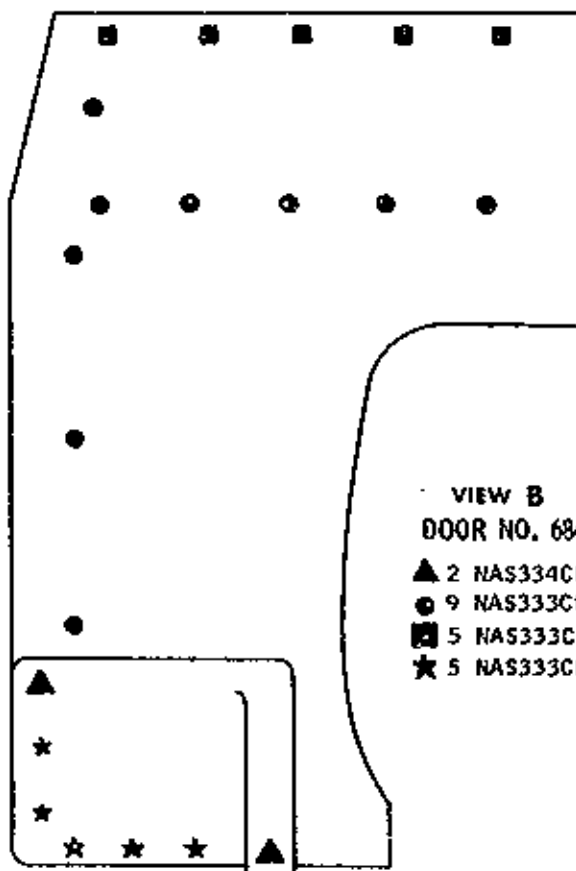
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS334CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

RA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679	No Access	
679A	Yaw and Pitch Accelerometers	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
*692	Accessory Compartment (through cargo compartment)	18 x 20
693A	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
693D	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia

\*Installed on airplanes N781FT-N788FT and N790FT-N795FT.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
694A	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Elements	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

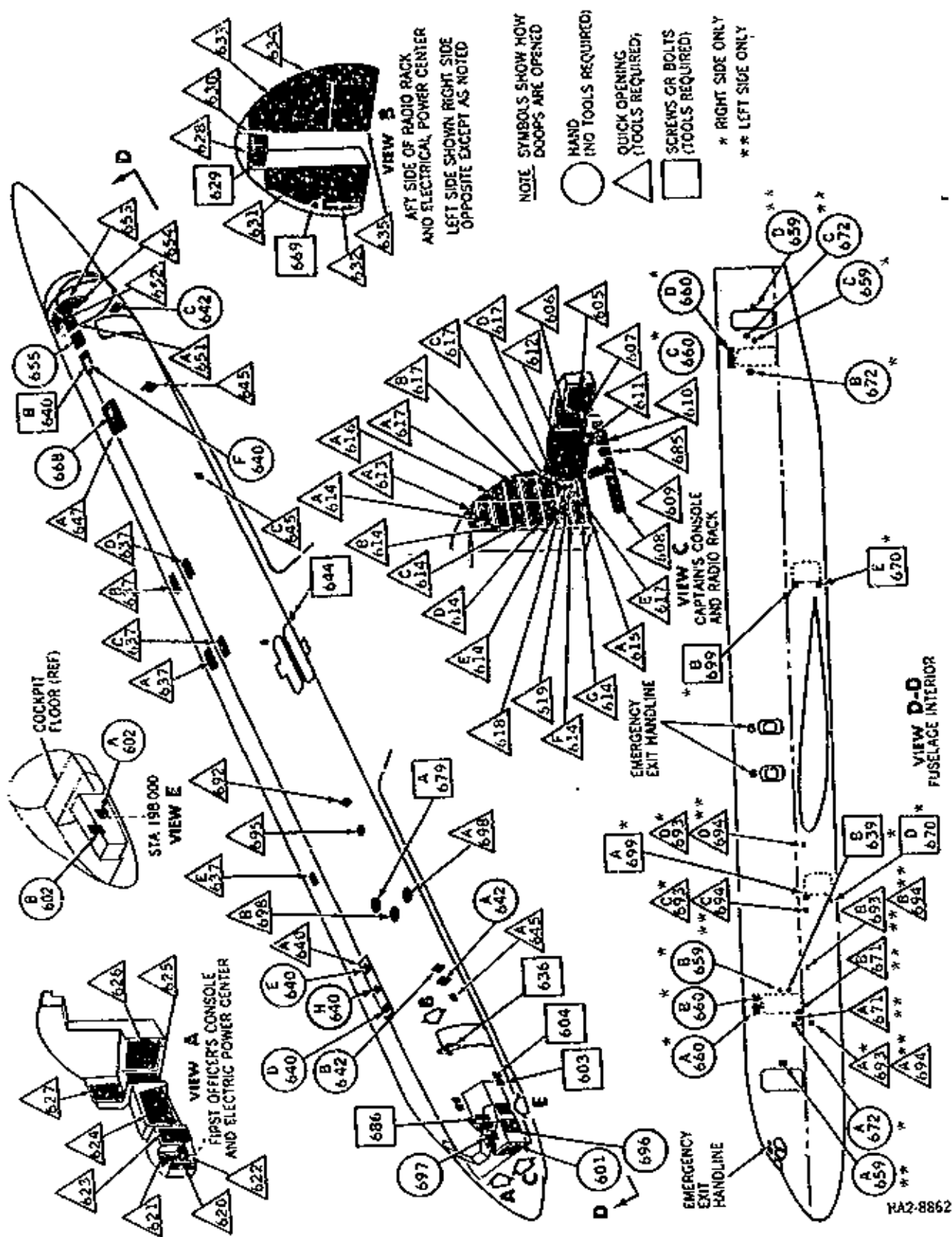
FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614F	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	8 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
629	Radio Rack	8 x 21
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
*637A	Emergency Battery	4 1/2 x 12
*637B	Emergency Battery	4 1/2 x 12
*637C	Emergency Battery	4 1/2 x 12
*637D	Emergency Battery	4 1/2 x 12
*637E	Emergency Battery	4 1/2 x 12
639B	Attendant's Call Button	3 x 7
640B	Aft Potable Water Tanks	21 x 78
640E	Potable Water Fill and Overflow Valves	6 x 6
640F	Potable Water Fill and Drain Valve	4 x 7
640H	Water Level Gauge	4 x 8
640J	Potable Water Re-Route Valve (Located in forward cockpit ceiling)	5 x 5
641	Hydraulic Control Panel	5 x 10

\*Not installed on airplane N4864T.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

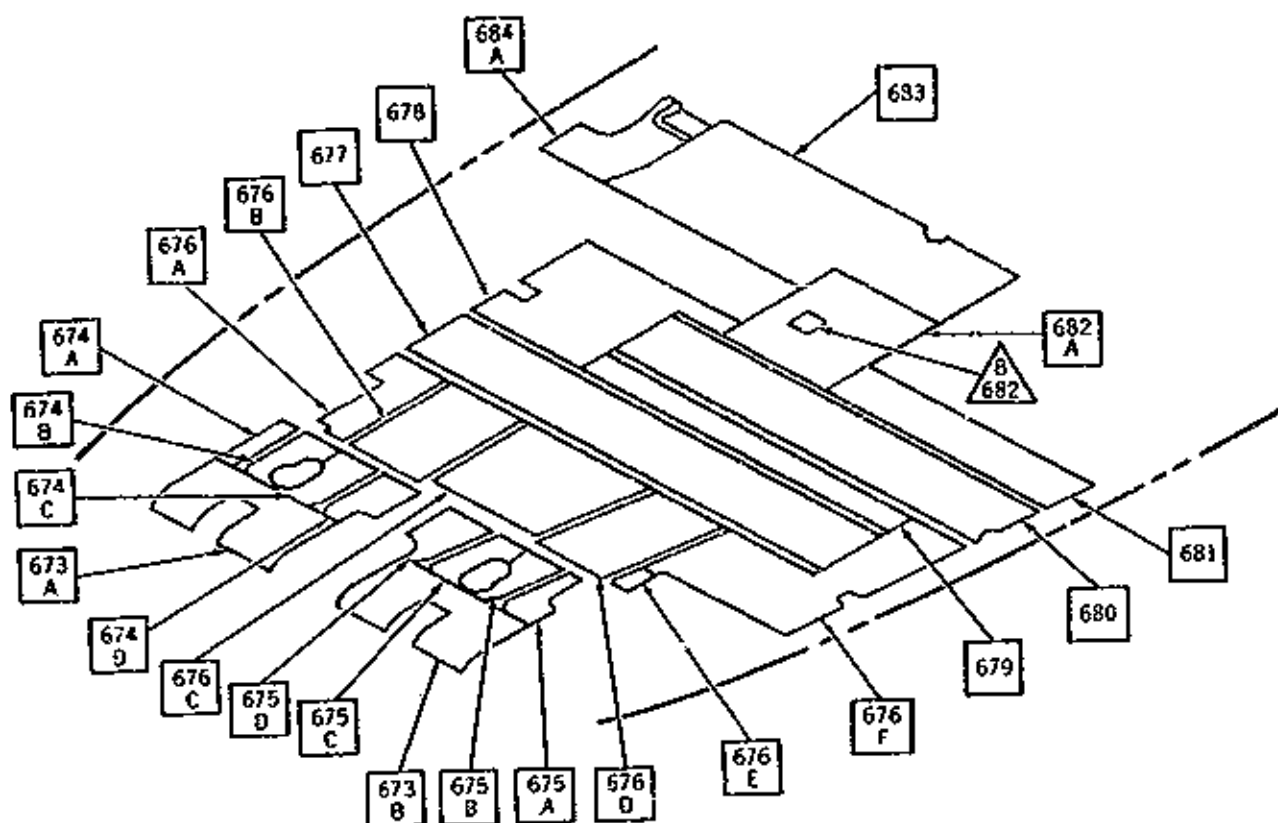
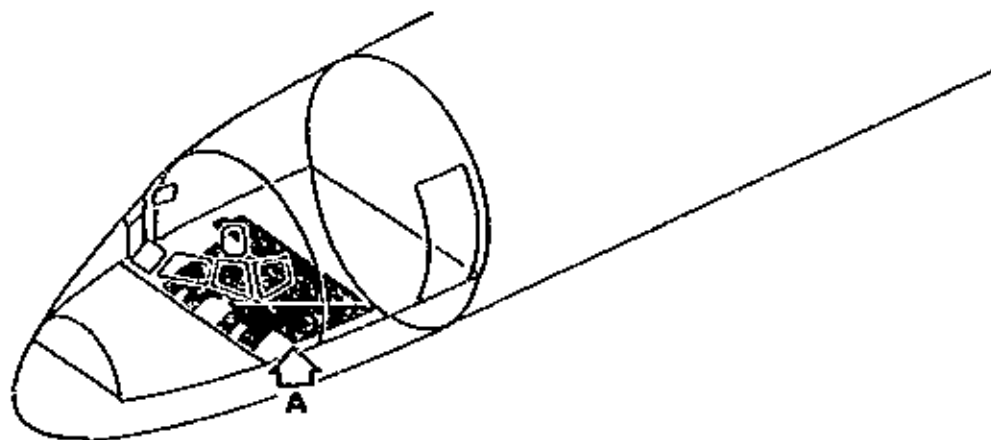
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
643	Cargo Door Hold-Open Fitting	4 x 8
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service (Access from Aft Cargo Compartment)	30 x 26
*645A	Forward Waste Water Drain Valve	4 x 6
*645C	Aft Waste Water Drain Valve	4 x 6
646A	Cargo Restraining Net Attach	10 x 51
646B	Cargo Restraining Net Attach	7 x 10
646C	Cargo Restraining Net Attach	10 x 51
646D	Cargo Restraining Net Attach	7 x 14
646E	Cargo Restraining Net Attach	10 x 58
647A	Oxygen Cylinders	37 x 54
647D	Crew Spare Oxygen Stowage	17 x 40
647E	Crew Spare Oxygen Stowage	17 x 40
649A	Forward Potable Water System Drain Valve	6 x 7
651A	Flight Recorder, Oxygen Cylinders	20 x 32
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42

\*Installed on airplanes N48657 and subs.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL




ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
657	Combustor Air Starter Regulator (Door reached from main gear wheel well)	3 x 6
650A	Cargo Restraining Net Attach	3 x 6
658B	Cargo Restraining Net Attach	9 x 20
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Oxygen Gage	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



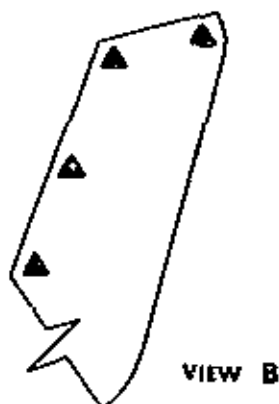
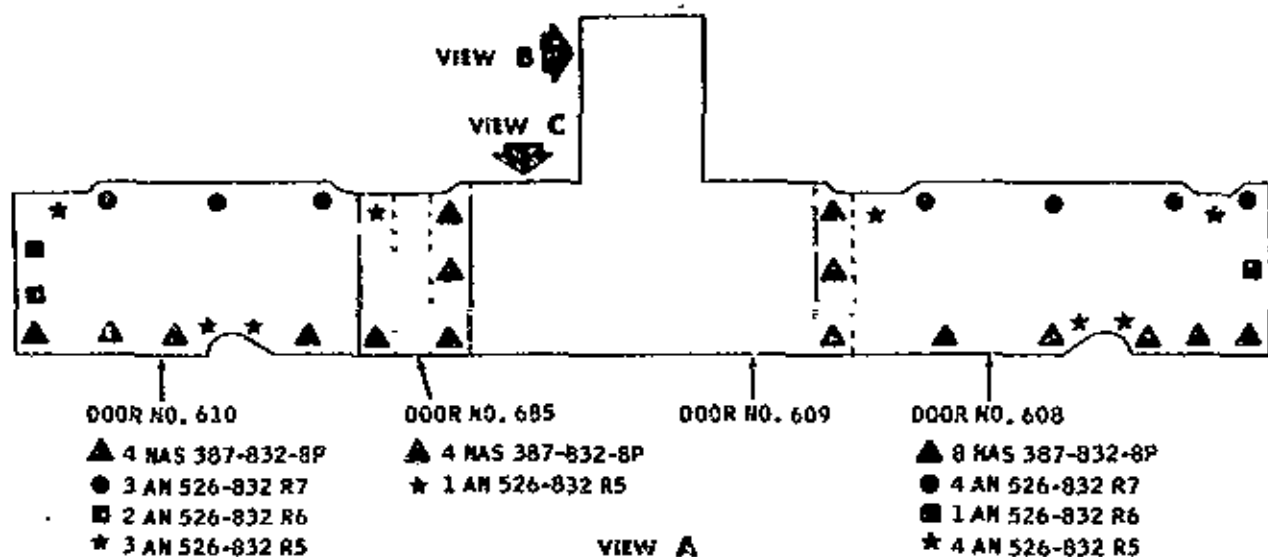
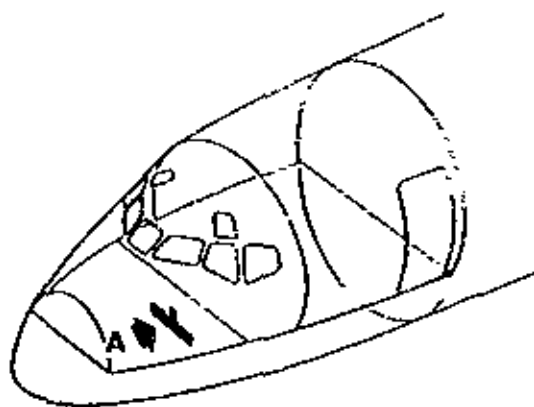
VIEW A

**NOTE** SYMBOLS SHOW HOW DOORS ARE OPENED

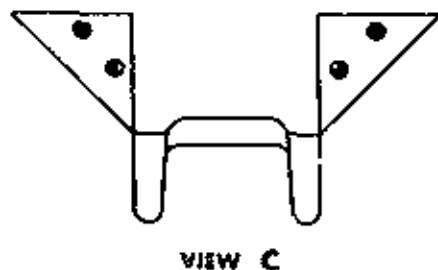
-  HAND  
NO TOOLS REQUIRED.
-  SCREWS OR BOLTS  
TOOLS REQUIRED.
-  QUICK-OPENING  
TOOLS REQUIRED.

HA2-1858

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



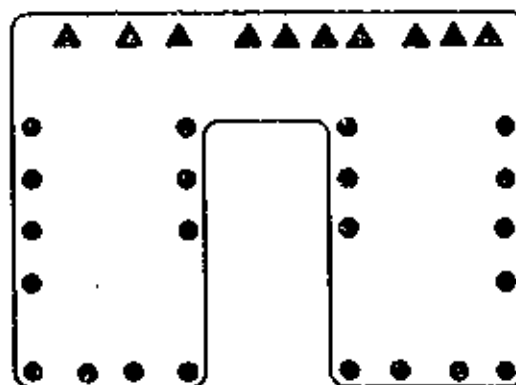
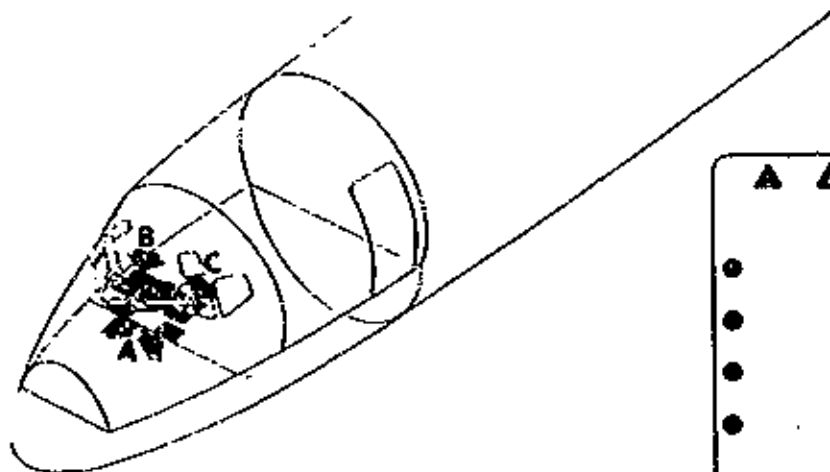
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DOOR NO. 609  
 ● 4 NAS 387-832-6

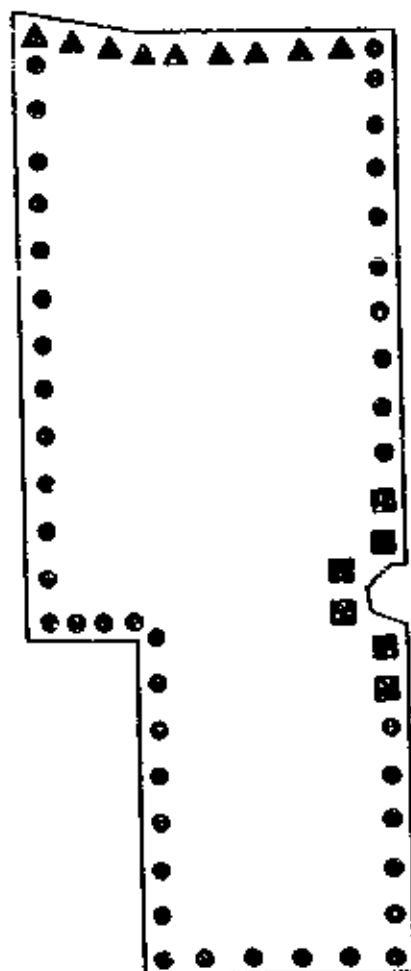
HA2-1464

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



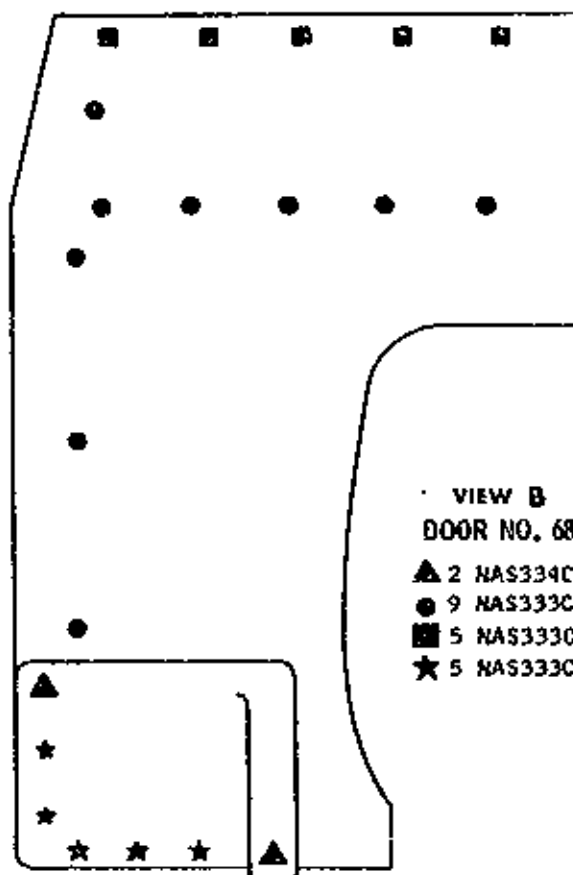
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-3R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS333CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA6

HA2-1459

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679	No Access	
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Noise Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
**692	Accessory Compartment (from cargo compartment)	18 x 20
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

\*\*Installed on airplanes N4864T and N4865T only.



DOUGLAS AIRCRAFT CO., INC.  
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FUSELAGE INTERIOR ACCESS DOORS - MAINTENANCE PRACTICES

1. General

- A. Fuselage interior access doors are numbered 600 to 699. Doors providing access to non-maintenance type items or doors clearly labeled by stenciling or decals are not numbered. For example, doors affording access to life rafts are not numbered because they are plainly marked and identified.
- B. Access doors to the same items or general group of items may have the same number, but with a letter designation added for further identification.

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
601	Ducts	17 x 25
602A	Air Conditioning System	20 x 27
602B	Air Conditioning System	20 x 27
603	Freon Condenser	6 x 11
604	Freon Condenser	7 x 11
605	Wiring	14 x 16
606	Wiring	13 x 20
607	Wiring	19 x 13
608	Wiring	8 x 22
609	Pilots' Control Pedestal	18 x 17
610	Wiring	8 x 16
611	Wiring	12 x 20
612	Wiring	21 x 58
613A	Radio/Electronic Equipment	2 x 25
614A	Radio/Electronic Equipment	10 x 25
614B	Radio/Electronic Equipment	10 x 25

10



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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
614C	Radio/Electronic Equipment	10 x 25
614D	Radio/Electronic Equipment	10 x 25
614E	Radio/Electronic Equipment	10 x 25
614G	Radio/Electronic Equipment	10 x 25
615A	Radio/Electronic Equipment	2 x 44
616A	Radio/Electronic Equipment	20 x 17
617A	Radio/Electronic Equipment	10 x 19
617B	Radio/Electronic Equipment	10 x 19
617C	Radio/Electronic Equipment	10 x 19
617D	Radio/Electronic Equipment	10 x 19
617E	Radio/Electronic Equipment	10 x 19
618	Wiring	8 x 16
619	Wiring	8 x 16
620	Wiring	8 x 14
621	Wiring	13 x 20
622	Wiring	13 x 20
623	Electrical Power Center Forward Equipment Panel	14 x 22
624	Electrical Power Center Forward Center Equipment Panel	21 x 25
625	Electrical Power Center Aft Center Equipment Panel	16 x 31
626	Electrical Power Center Aft Equipment Panel	15 x 33
627	Electrical Power Center Upper Equipment Panel	30 x 33
628	Wiring	9 x 20
629	Radio Rack	8 x 21

DOUGLAS AIRCRAFT CO., INC.  
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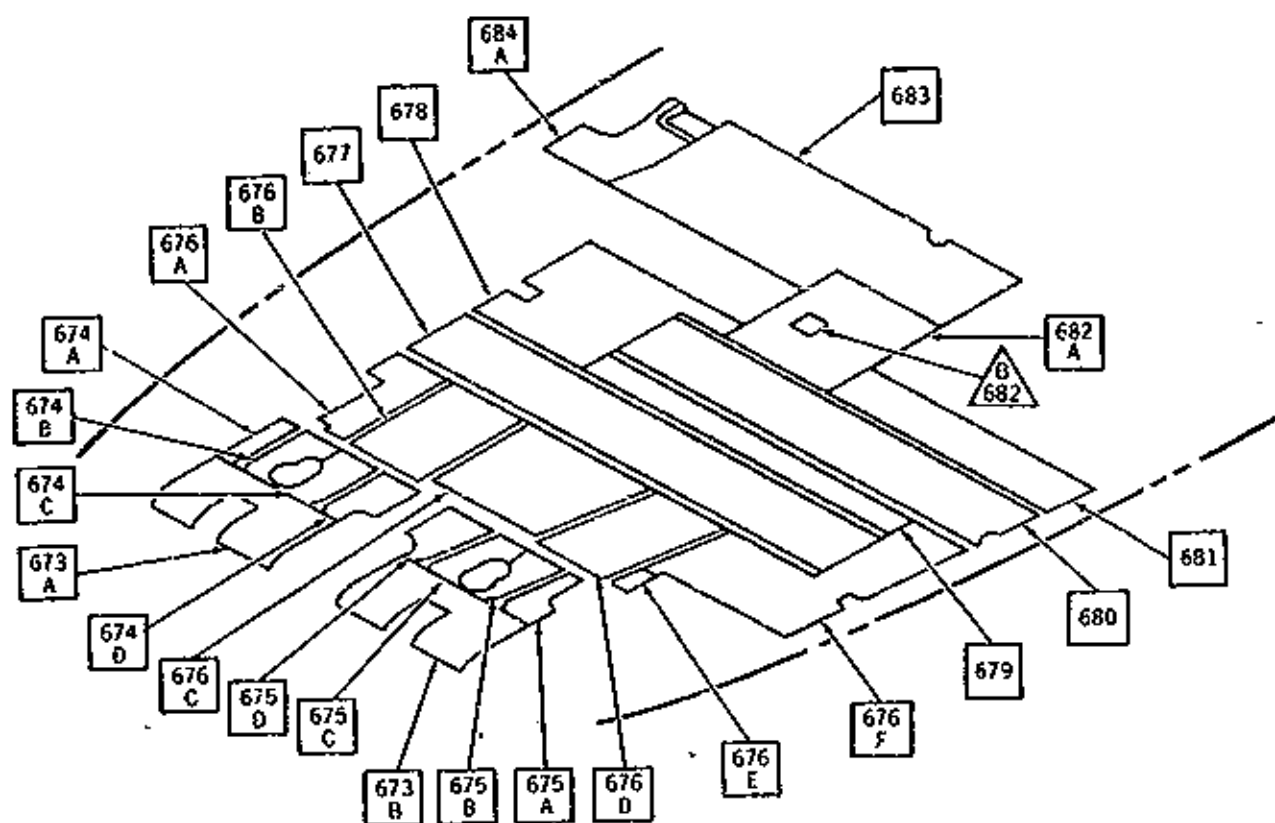
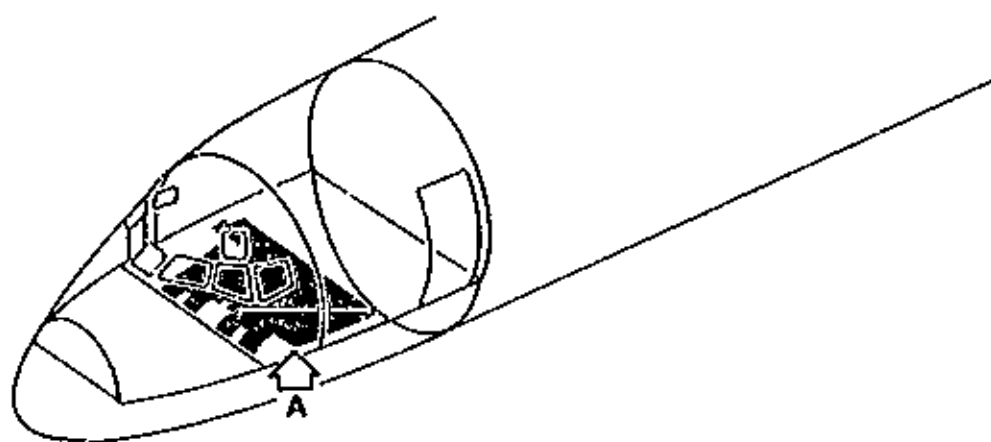
ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
630	Electrical Power Center Equipment	8 x 20
631	Radio Rack	40 x 43
632	Radio Rack	32 x 40
633	Electrical Power Center Equipment	39 x 49
634	Electrical Power Center Equipment	17 x 60
635	Electrical Power Center Equipment	29 x 38
636	Air-Conditioning Compartment from Forward Cargo Compartment	30 x 34
637A	Emergency Battery	4 1/2 x 12
637B	Emergency Battery	4 1/2 x 12
637C	Emergency Battery	4 1/2 x 12
637D	Emergency Battery	4 1/2 x 12
639B	Attendant's Call Button	3 x 7
640R	Aft Potable Water Tanks	21 x 78
640E	Potable Water Fill and Overflow Valves, Forward Potable Water Tank	30 x 30
640F	Potable Water Fill and Drain Valve	5 x 7
640H	Water Level Gauge	5 x 8
640J	Potable Water Re-Route Valve	5 x 5
641	Hydraulic Control Panel	5 x 10
642A	Washstand Piping	18 x 24
642B	Washstand Piping	18 x 24
642C	Washstand Piping	18 x 24
643	Cargo Door Hold-Open Fitting	4 x 8

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
644	Fillet	8 1/2 x 13
645	Pressurization Outlets and Waste Water Service	30 x 26
*645A	Forward Waste Water Drain Valve	4 x 6
*645C	Aft Waste Water Drain Valve	4 x 6
646A	Cargo Restraining Net Attach	10 x 51
646B	Cargo Restraining Net Attach	7 x 10
646C	Cargo Restraining Net Attach	10 x 51
646D	Cargo Restraining Net Attach	7 x 14
646E	Cargo Restraining Net Attach	10 x 58
647A	Structure	37 x 54
647C	Oxygen Cylinders	28 x 32
647D	Crew Spare Oxygen Stowage	17 x 40
647E	Crew Spare Oxygen Stowage	17 x 40
649A	Forward Potable Water System Drain Valve	5 x 7
651	Water Piping	21 x 41
651A	First Aid Oxygen Cylinders; Flight Recorder	20 x 32
652	Water Piping	32 x 42
653	Water Piping	34 x 46
654	Water Piping	32 x 42
658A	Cargo Restraining Net Attach	3 x 6
658B	Cargo Restraining Net Attach	9 x 20
659A	Forward Passenger Entrance Door Warning Switch	2 x 4
659B	Forward Service Entrance Door Warning Switch	4 x 4
659C	Aft Service Entrance Door Warning Switch	3 x 4

\*Installed on airplane N8639.

DOUGLAS AIRCRAFT CO., INC.  
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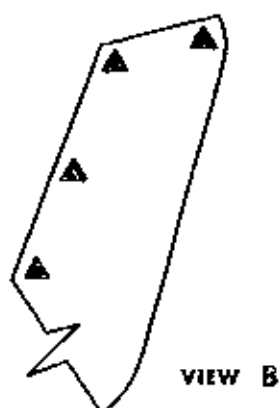
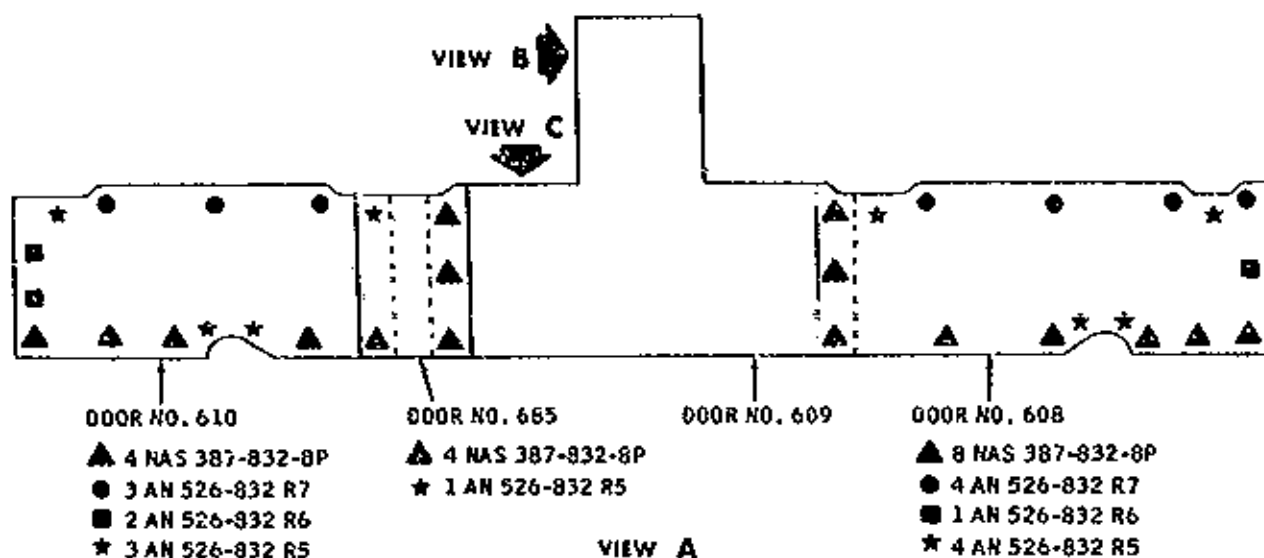
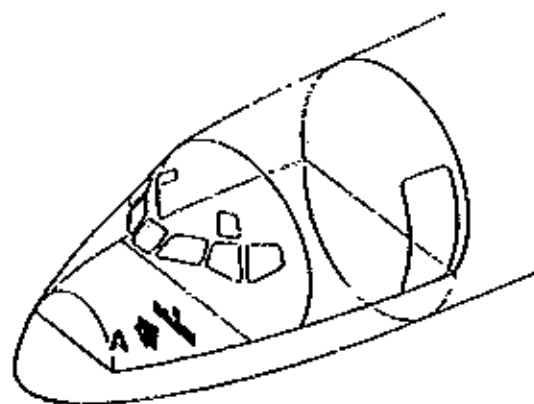
VIEW A

NOTE: SYMBOLS SHOW HOW  
DOORS ARE OPENED

-  HAND  
(NO TOOLS REQUIRED)
-  SCREWS OR BOLTS  
(TOOLS REQUIRED)
-  QUICK-OPENING  
(TOOLS REQUIRED)

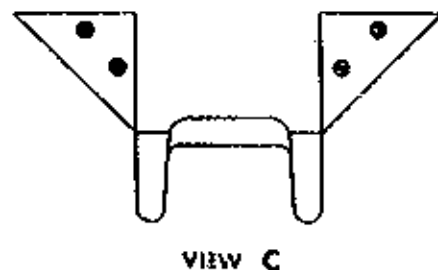
HA2-1858

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DOOR NO. 609

- ▲ 8 NAS 387-832-10



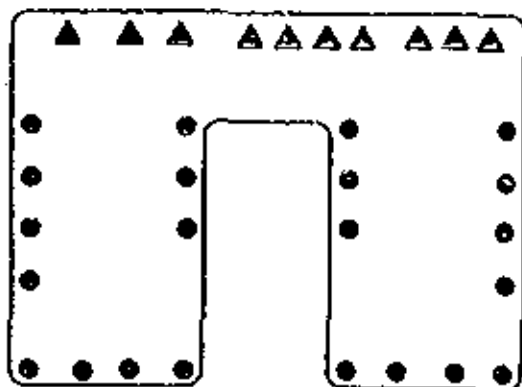
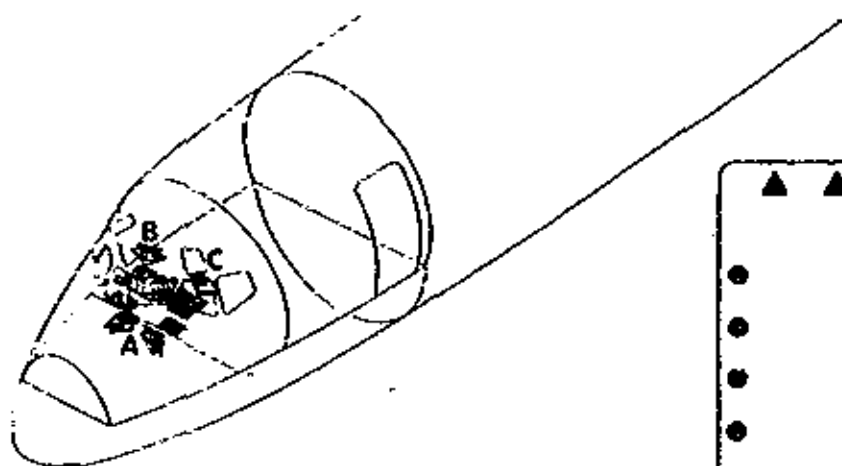
DOOR NO. 609

- 4 NAS 387-832-6

KA2-1464

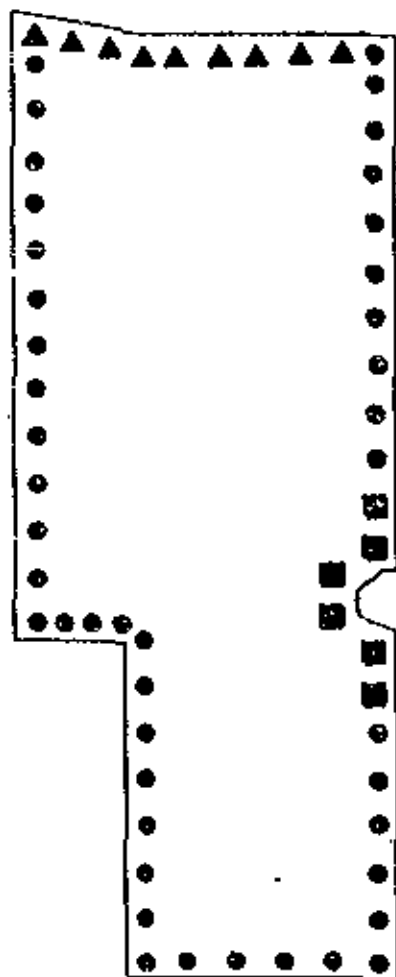
6-11-4  
 CODE 60  
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**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



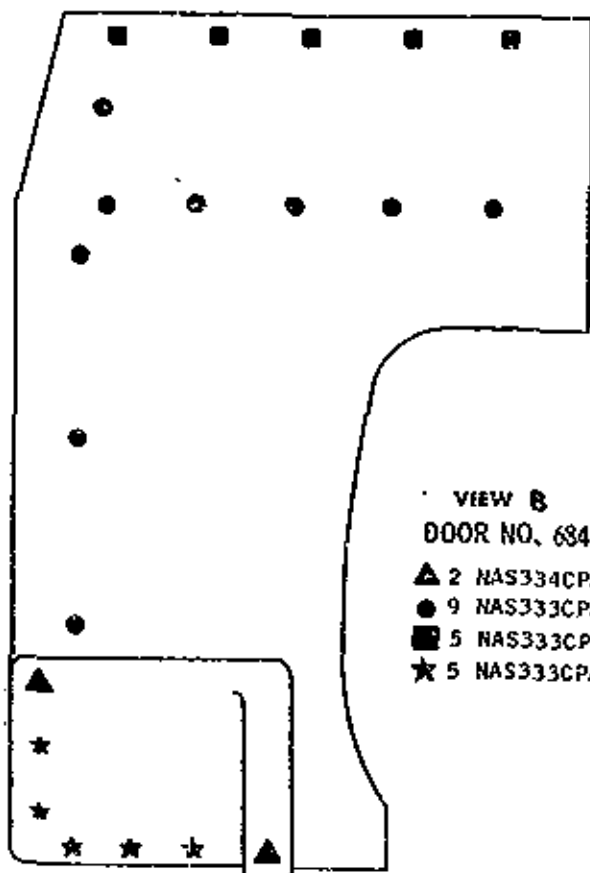
VIEW A  
 DOOR NO. 673A, 673B

- ▲ 10 AN509-10R7
- 22 AN509-8R12



VIEW C  
 DOOR NO. 683

- ▲ 9 NAS333CPA7-5
- 44 NAS333CPA4-5
- 6 NAS333CPA5



VIEW B  
 DOOR NO. 684

- ▲ 2 NAS333CPA10
- 9 NAS333CPA7-5
- 5 NAS333CPA4-5
- ★ 5 NAS333CPA4

HA2-1459



DOUGLAS AIRCRAFT CO., INC.  
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 MAINTENANCE MANUAL

ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
659D	Aft Passenger Entrance Door Warning Switch	3 x 3
660A	Forward Cabin Electrical Panel	11 x 20
660B	Forward Cabin Electrical Panel	11 x 12
660C	Aft Cabin Electrical Panel	11 x 20
660D	Aft Cabin Electrical Panel	11 x 12
668	Structure	10 x 10
669	Forward Passenger Entrance Door Snubber	4 Dia
670D	Forward Cargo Compartment Light Switch	5 x 7
670E	Aft Cargo Compartment Light Switch	5 x 7
672A	Forward Service Entrance Door Torque Tube	3 1/2 x 4
672B	Aft Service Entrance Door Torque Tube	3 1/2 x 4
672C	Aft Passenger Entrance Door Torque Tube	3 1/2 x 4
673A	Rudder Pedal Mechanism, Cables	26 x 27
673B	Rudder Pedal Mechanism, Cables	26 x 27
674A	Wave Guide, Pipes, Conditioned Air Duct	5 x 17
674B	Cables	3 x 7
674C	Cables, Mach Trim Actuator	8 x 10
674D	Cables	6 x 15
675A	Conditioned Air Duct	7 x 17
675B	Cables, Pipes	4 x 10
675C	Cables	8 x 10
675D	Cables	6 x 15
676A	Cables	9 x 21

DOUGLAS AIRCRAFT CO., INC.  
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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
676B	Aileron Bus, Cables, Pipes	13 x 20
676C	Aileron Bus, Cables	19 x 23
676D	Aileron Bus, Cables	12 x 20
676E	Pipes	1 1/2 x 6
676F	Pipes, Wave Guide, Conditioned Air Duct	25 x 32
677	Pipes, Wave Guide, Cables, Wiring	10 x 85
678	Pipes, Cables, Wiring	18 x 22
679	No Access	
679A	Yaw and Pitch Accelerometers	15 x 18
680	Pipes, Wave Guide, Cables, Conditioned Air Duct	10 x 75
681	Pipes, Wave Guide, Cables, Conditioned Air Duct	7 x 45
682A	Cables, Wiring	19 x 21
682B	Nose Gear Viewer	2 1/2 x 3
683	Wiring, Conditioned Air Duct	24 x 60
684	Wiring	14 x 22
685	Wiring	5 x 8
686	Pitch Trim Actuator	4 x 11
693A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
693D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia

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ACCESS OPENING NUMBER	ACCESS TO	NOMINAL OPENING SIZE (INCHES)
694A	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694B	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694C	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
694D	Pneumatic Air Ducts, Overheat Detector Sensing Element	5 1/2 Dia
695	Drain Mast	9 x 9
696	Heat Exchanger and Ducting (L)	18 x 24
697	Heat Exchanger and Ducting (R)	18 x 24
698A	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
698B	Outside Air Temperature Probe (Located in cargo compartment floor)	5 1/2 Dia
699A	Forward Cargo Compartment Door Warning Switch	5 x 7
699B	Aft Cargo Compartment Door Warning Switch	5 x 7

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

C H A P T E R 11

R E Q U I R E D P L A C A R D S

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

HIGHLIGHTS

TO: ALL HOLDERS OF DC-8 SEVENTY SERIES MAINTENANCE MANUAL

CONCERNING: REVISION 19, CHAPTER 11, DATED: APR 1/88

11-CONT REVISED TO PROVIDE A NEW GENERIC TABLE OF CONTENTS.

11-IDENT REVISED TO PROVIDE A NEW GENERIC AIRPLANE IDENTIFICATION LIST.

MANUAL UPDATE INSTRUCTIONS

PLEASE INSERT REVISED AND NEW PAGES INTO THIS MANUAL IN ACCORDANCE WITH THE CURRENT LIST OF EFFECTIVE PAGES. ALL EXISTING PAGES IN YOUR MANUAL THAT ARE BEING REPLACED WITH REVISED PAGES ARE TO BE REMOVED FROM YOUR MANUAL.

AN (\*) ASTERISK IN FRONT OF AN ENTRY ON THE LIST OF EFFECTIVE PAGES INDICATES NEW OR REVISED PAGES.

A LIST OF PAGES DELETED BY THE CURRENT REVISION IS BEING FURNISHED AS A PART OF THE HIGHLIGHTS AND DELETED PAGES SHOULD BE REMOVED FROM YOUR MANUAL.

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

CHAPTER SECTION SUBJECT	CODE	PAGE	DATE	CHAPTER SECTION SUBJECT	CODE	PAGE	DATE
11-TITLE							
* 11-EFF		1	APR 1/88				
* 11-CONT		1	APR 1/88				
* 11-IDENT		1	APR 1/88				
* 11-IDENT		2	APR 1/88				
* 11-IDENT		3	APR 1/88				
11-11-4	50	1	DEC 1/82				
11-11-4	50	2	DEC 1/82				
11-13-2	50	1	DEC 1/82				
11-13-2	50	2	DEC 1/82				
11-13-3	50	1	DEC 1/82				
11-13-3	50	2	DEC 1/82				
11-13-3	50	3	DEC 1/82				
11-13-3	50	4	DEC 1/82				
11-13-3	50	5	DEC 1/82				
11-14-1	50	1	DEC 1/84				
11-14-1	50	2	DEC 1/84				
11-14-1	50	3	DEC 1/84				
11-14-1	50	4	DEC 1/84				

\*The asterisk indicates pages revised or added by the current revision.

EFFECTIVITY PAGES 11

APR 1/88

Page 1

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**DC-8 SEVENTY SERIES**  
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CHAPTER 11

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EXTERNAL MARKINGS -- RIGHT WING (UPPER SURFACE)-----	11-13-2			
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Description and Operation---		1	CODE 50	ALL

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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Numbers	Fuselage Numbers
DC8-71	45810	252
DC8-71	45811	262
DC8-71	45812	277
DC8-71	45813	284
DC8-71	45849	289
DC8-71	45891	305
DC8-71CF	45897	313
DC8-71CF	45898	320
DC8-71CF	45900	316
DC8-71CF	45902	294
DC8-71	45907	288
DC8-71	45913	325
DC8-71	45914	292
DC8-71	45915	295
DC8-73CF	45936	344
DC8-71CF	45938	331
DC8-71CF	45939	351
DC8-71	45941	317
DC8-71	45944	326
DC8-71	45945	337
DC8-71	45946	339
DC8-71	45947	341
DC8-71CF	45948	321
DC8-71CF	45949	329
DC8-71CF	45950	354
DC8-71CF	45952	338
DC8-71	45963	355
DC8-73CF	45966	393
DC8-73CF	45967	385
DC8-73CF	45968	389
DC8-71	45970	343
DC8-71	45971	356
DC8-71	45973	358
DC8-71	45974	368
DC8-71	45975	369
DC8-71	45976	372
DC8-71	45977	373
DC8-71	45978	381
DC8-71	45979	363



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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	45983	350
DC8-73CF	45990	375
DC8-73CF	45991	300
DC8-71	45993	382
DC8-71	45994	387
DC8-71	45995	388
DC8-71	45996	397
DC8-71	45997	398
DC8-71	45998	399
DC8-73CF	46001	395
DC8-73CF	46002	394
DC8-73AF	46003	401
DC8-73AF	46004	403
DC8-73AF	46006	413
DC8-73AF	46007	422
DC8-73AF	46008	423
DC8-72CF	46013	427
DC8-71	46014	400
DC8-71	46018	420
DC8-73AF	46019	411
DC8-71	46029	425
DC8-71	46030	426
DC8-73	46033	431
DC8-71	46039	448
DC8-71	46040	449
DC8-72CF	46043	443
DC8-73AF	46044	432
DC8-73CF	46045	441
DC8-73CF	46046	444
DC8-73CF	46047	447
DC8-71	46048	450
DC8-73CF	46049	479
DC8-73CF	46051	440
DC8-73CF	46052	442
DC8-73	46053	446
DC8-71	46055	492
DC8-71	46056	495
DC8-73CF	46059	456
DC8-73CF	46062	486
DC8-73	46063	457

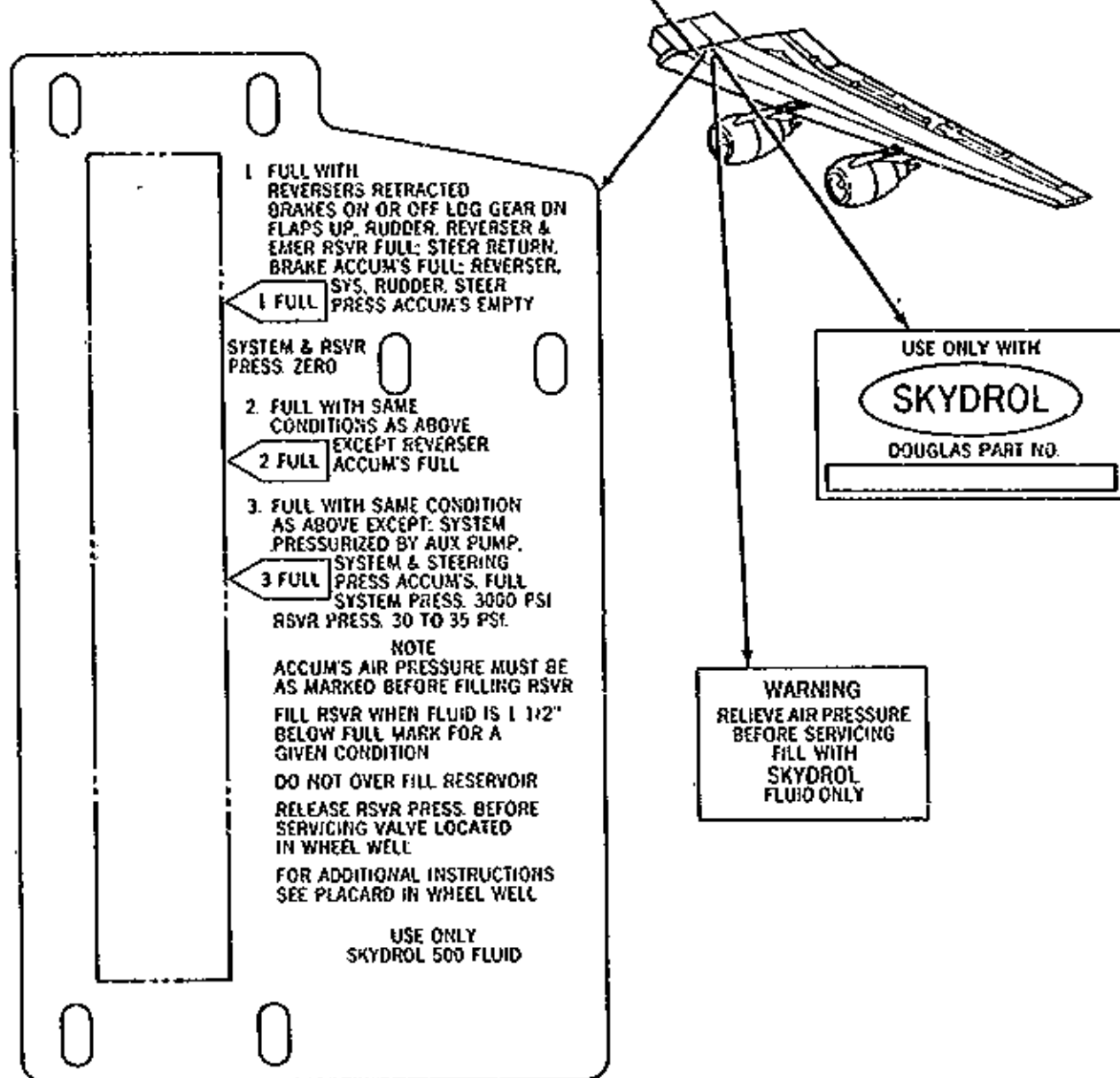
DOUGLAS AIRCRAFT CO., INC.  
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MAINTENANCE MANUAL

AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	46064	459
DC8-71	46065	460
DC8-71	46066	462
DC8-72	46067	455
DC8-71	46072	477
DC8-73CF	46073	485
DC8-73AF	46074	468
DC8-73	46076	451
DC8-73AF	46080	466
DC8-72	46081	471
DC8-72	46082	458
DC8-72	46084	473
DC8-73CF	46086	478
DC8-73CF	46087	454
DC8-73CF	46089	501
DC8-73CF	46090	504
DC8-73CF	46091	519
DC8-73CF	46094	482
DC8-73	46095	497
DC8-71	46099	507
DC8-73	46100	502
DC8-73CF	46101	489
DC8-73CF	46103	483
DC8-73CF	46104	488
DC8-73CF	46106	490
DC8-73CF	46108	522
DC8-73CF	46109	493
DC8-73CF	46112	520
DC8-73CF	46117	525
DC8-73	46123	508
DC8-73	46124	511
DC8-73	46125	515
DC8-72CF	46130	542
DC8-73CF	46133	534
DC8-73CF	46135	531
DC8-73CF	46140	528
DC8-73CF	46149	538

DOUGLAS AIRCRAFT CO., INC.  
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MAINTENANCE MANUAL

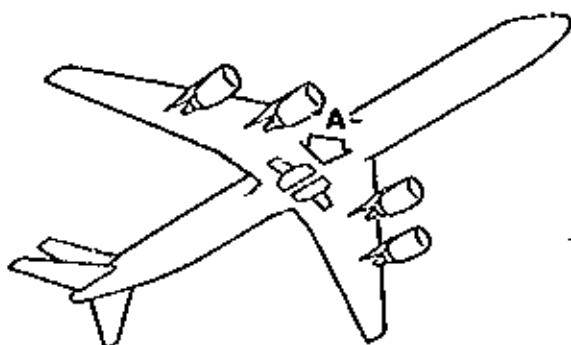
**WARNING** RELEASE AIR PRESSURE BEFORE DISASSEMBLY



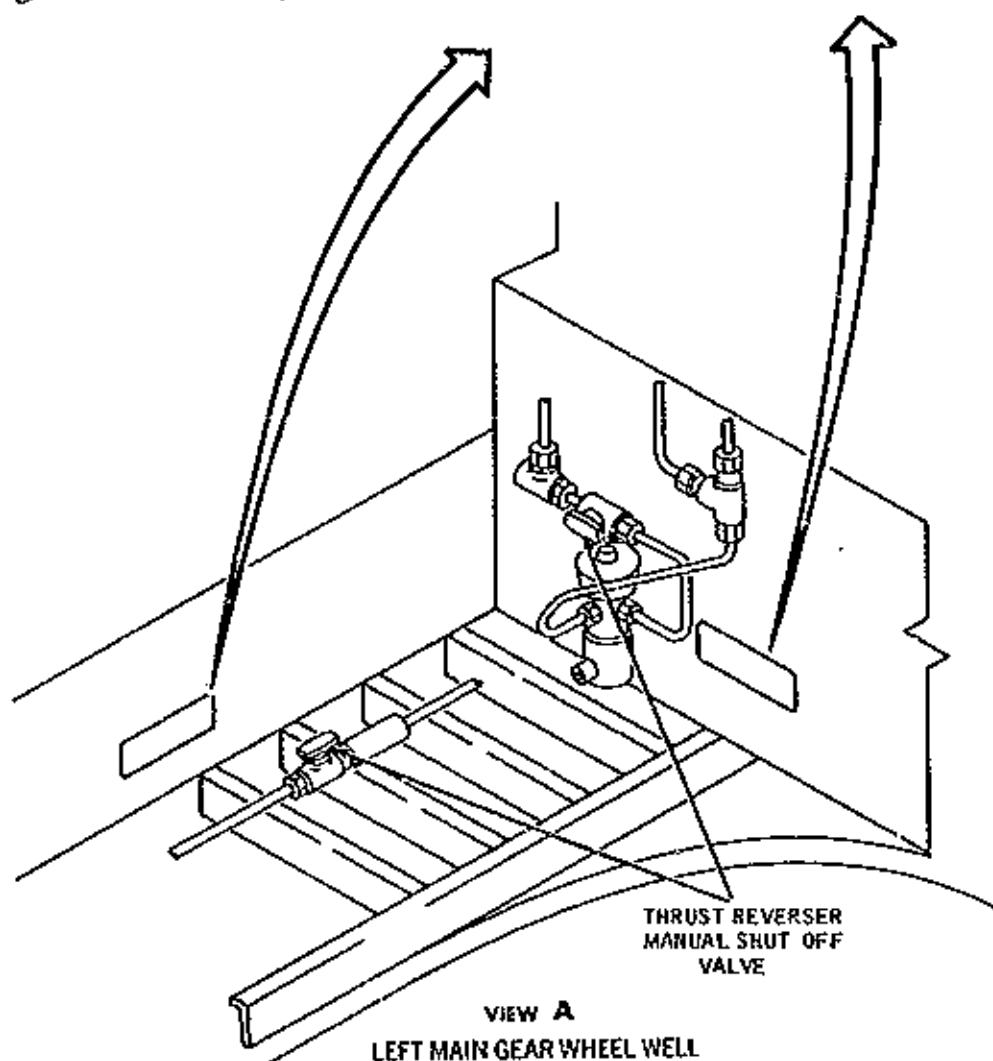
HA2-8901

Main Landing Gear Wheel Well (Left) -- Hydraulic Reservoir Markings  
Figure 1

DOUGLAS AIRCRAFT CO., INC.  
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MAINTENANCE MANUAL



**WARNING**  
CLOSE BOTH MANUAL SHUT OFF VALVES  
BEFORE SERVICING THRUST REVERSERS.  
LOCKWIRE VALVES IN OPEN POSITION  
AFTER SERVICING




HA2-8902

Main Landing Gear Wheel Well (Left) -- Hydraulic Reservoir Markings  
Figure 2

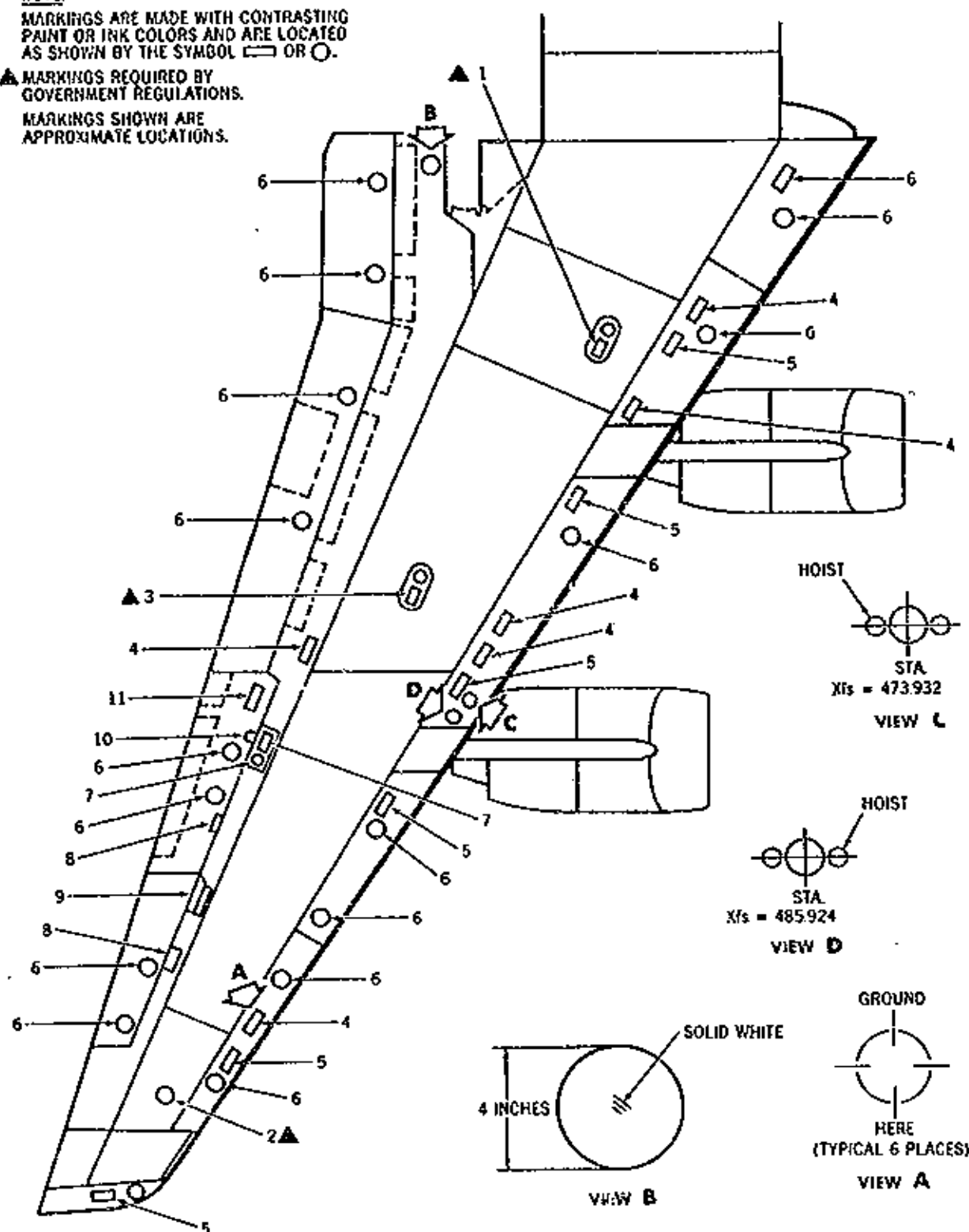
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**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

**NOTE:**

MARKINGS ARE MADE WITH CONTRASTING  
 PAINT OR INK COLORS AND ARE LOCATED  
 AS SHOWN BY THE SYMBOL  OR .

 MARKINGS REQUIRED BY  
 GOVERNMENT REGULATIONS.

MARKINGS SHOWN ARE  
 APPROXIMATE LOCATIONS.



External Markings -- Right Wing (Upper Surface)  
 Figure 1 (Sheet 1)

HA2-8903

11-13-2  
 CODE 50  
 Page 1

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<u>Item No.</u>	<u>Stencil Marking</u>	<u>Letter Size</u>
1	NO. 3 MAIN TANK AUXILIARY FILL STRUCTURAL LIMIT 31,690 LBS. FUEL - PWA SPEC. 522 REVISED	1/4
2	NO. 4 EXT. ALT. TANK STRUCTURAL LIMIT 11,682 LBS. FUEL - PWA SPEC. 522 REVISED	1/4
3	NO. 4 MAIN TANK AUXILIARY FILL STRUCTURAL LIMIT 20,903 LBS. FUEL - PWA SPEC. 522 REVISED	1/4
4	GROUND HERE	1/2
5	DISC WIRING TO REMOVE	3/16
6	HOIST	1/2
7	AILERON POWER MECHANISM	1/4
8	AILERON DAMPER CYLINDER	1/4
9	AILERON TORSION BAR	1/4
10	AILERON MECHANICAL CONTROL	1/4
11	AILERON TAB PUSH ROD	1/4

External Markings -- Right Wing (Upper Surface)  
 Figure 1 (Sheet 2)

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MAINTENANCE MANUAL

**WARNING**

1. AILERON BUS CABLE TURNBUCKLES AT XRS = 433 MUST BE DISCONNECTED BEFORE DISCONNECTING OR RIGGING AILERON CONTROL LINKAGE OR AILERON HYDRAULIC COMPONENTS. SEE MAINTENANCE MANUAL FOR RIGGING INSTRUCTIONS BEFORE RECONNECTING BUS.
2. DO NOT OPERATE AILERONS FASTER THAN 18°/SEC WHEN USING GROUND HYDRAULIC POWER.

**VIEW E**

REMOVE THIS ATTACHMENT AND INSERT  $.310 \pm .001$  DIA ALIGNMENT BEFORE DISENGAGING CAL - FAX FASTENERS. USE ALIGNMENT PIN TO REALIGN CAL - FAX FASTENER STUDS WITH RECEPTACLE HOLES. INSTALL NAS333CPA SCREW AND NAS1169-DD10 WASHER AFTER ALL CAL - FAX FASTENERS ARE ENGAGED.

**— WARNING —**

DO NOT USE SCREWDRIVER IN PLACE OF ALIGNMENT PIN.



**VIEW F**

HA2-8905

External Markings -- Left Wing (Lower Surface)  
Figure 1 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

<u>Item No.</u>	<u>Stencil Marking</u>	<u>Letter Size</u>
1	DE-ICE VALVE NO. 6	7/16
2	DE-ICE VALVE NO. 3	7/16
3	DE-ICE VALVE NO. 5	7/16
4	DE-ICE VALVE NO. 7	7/16
5	DE-ICE VALVE NO. 2	7/16
6	DE-ICE VALVE NO. 8	7/16
7	FUEL SUMP DRAIN NO. 1 MAIN TANK	1/4
8	FUEL SUMP DRAIN NO. 2 MAIN TANK	1/4
9	FUEL SUMP DRAIN NO. 1 ALT. TANK	1/4
10	FUEL SUMP DRAIN FWD. AUX. TANK	1/4
11	FUEL CROSSFEED MANIFOLD DRAIN VALVE	1/4
12	VENT MANIFOLD DRAIN VALVE	1/4
13	(See view C)	1/4
14	DRIPSTICK NO. 1 MAIN TANK LOCATION: OUTBD	1/4
15	DRIPSTICK NO. 2 MAIN TANK LOCATION: INBD	1/4
16	DRIPSTICK NO. 1 ALT. TANK LOCATION: INBD	1/4
17	DRIPSTICK NO. 2 MAIN TANK LOCATION: OUTBD	1/4

External Markings -- Left Wing (Lower Surface)

11-13-3  
 CODE 50  
 Page 3



DOUGLAS AIRCRAFT CO., INC.  
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 MAINTENANCE MANUAL

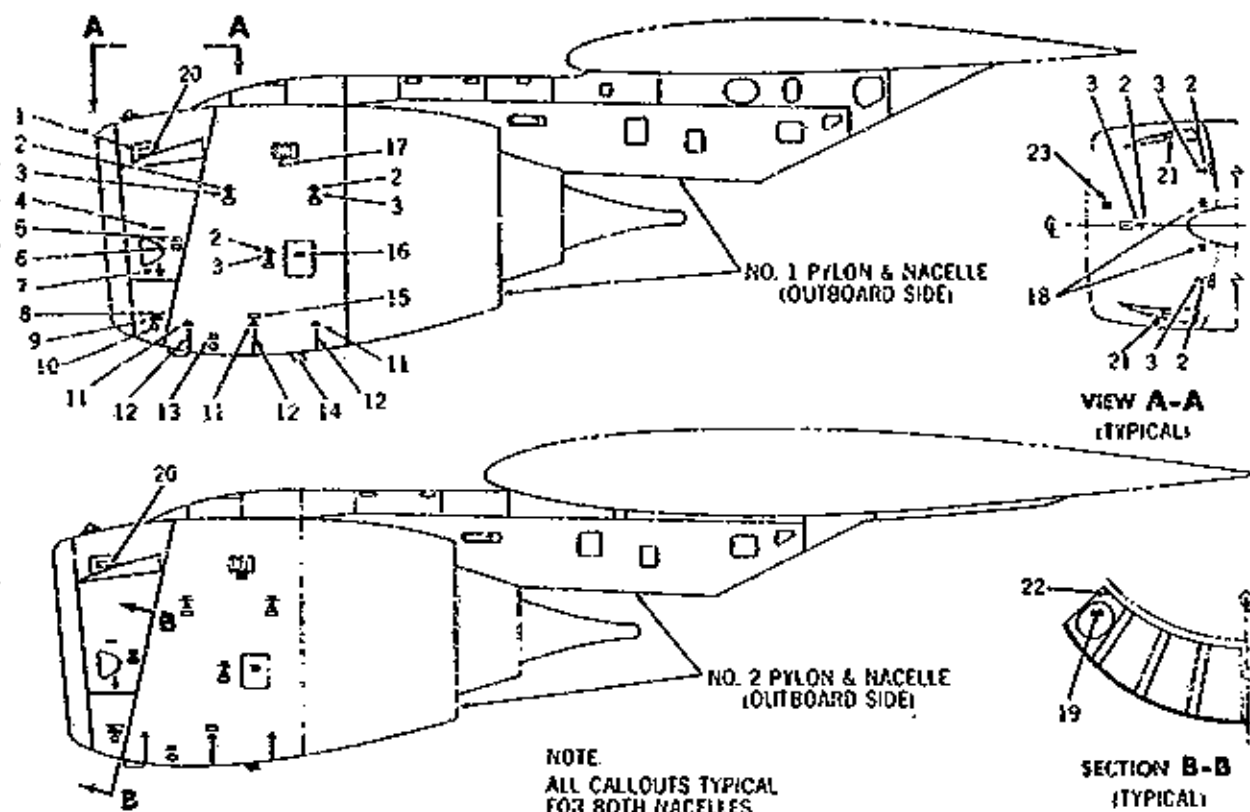
<u>Item No.</u>	<u>Stencil Marking</u>	<u>Letter Size</u>
18	DRIPSTICK NO. 1 ALT. TANK LOCATION: EXT. ALT.	1/4
19	DRIPSTICK NO. 1 ALT. TANK LOCATION: CENTER	1/4
20	(See view D)	1/4
21	MOORING POINT	1/2
22	JACK POINT	1/2
23	BALANCED SURFACE. PAINT OR REWORK REQUIRED REBALANCING. SEE STRUCTURAL REPAIR MANUAL.	1/2
24	PAINT OR REWORK REQUIRES RE-WEIGHING	1/2
25	AILERON HINGE NO. 2 & POWER MECHANISM	1/2
26	AILERON POWER LOCKOUT MECHANISM	1/2
27	AILERON HINGE NO. 3	1/2
28	AILERON HINGE NO. 6	1/2
29	AILERON TAB PUSH ROD	1/2
30	AILERON TAB DRUM ASSY	1/2
31	(See view A)	
32	(See view B)	
33	MAX AIRPLANE GR WT 204,000 LBS FOR JACKING - SEE MAINT MANUAL	1/2
34	FUEL PRESSURE FILL MAX. SERV. PRESS. 50 PSI FUEL: PWA SPEC. 522 REVISED	1/4

External Markings -- Left Wing (Lower Surface)

DOUGLAS AIRCRAFT CO., INC.  
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<u>Item No.</u>	<u>Stencil Marking</u>	<u>Letter Size</u>
35	FUEL SUMP DRAIN C. W. AUX. TANK	1/4
36	DRIPSTICK NO. 1 MAIN LOCATION: INBD	1/4
37	FUEL SUMP DRAIN TRANSFER LINE	1/4
38	(See View E)	
39	(See View F)	
40	FUEL SUMP DRAIN FWD AUX. TANK	1/4
41	OUTER WING DE-ICE SHUTOFF VALVE	1/4
42	PNEUMATIC FIRE SHUTOFF VALVE ENGINE CONTROL CABLES	1/4

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



1 ANTI-ICING DUCT

2 HOIST ATTACH POINT



4 STATIC GND CONN

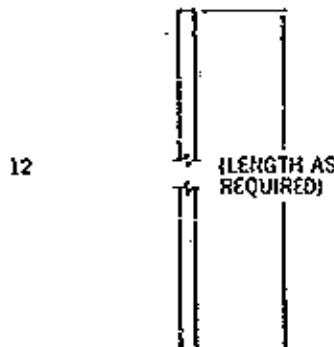
5 ANTI-ICING EXHAUST VENT



8 INTERPHONE JACK



11 LATCH FAN COMP DOORS



13 GEN COOLING AIR EXHAUST

14 ENG & ACCESS DRAIN

15 **CAUTION**  
WHEN OPENING  
IN HIGH WIND

16 ENG OIL TANK FILL CAPACITY 20 QUARTS

17 COOLING EXHAUST FAN COMP VENT

18 PYLON LE EDGE REMOVE BEFORE NOSE COWL

19 INTERPHONE SERVICE ACCESS

20 NAS 1580C3T4

21 NO STEP

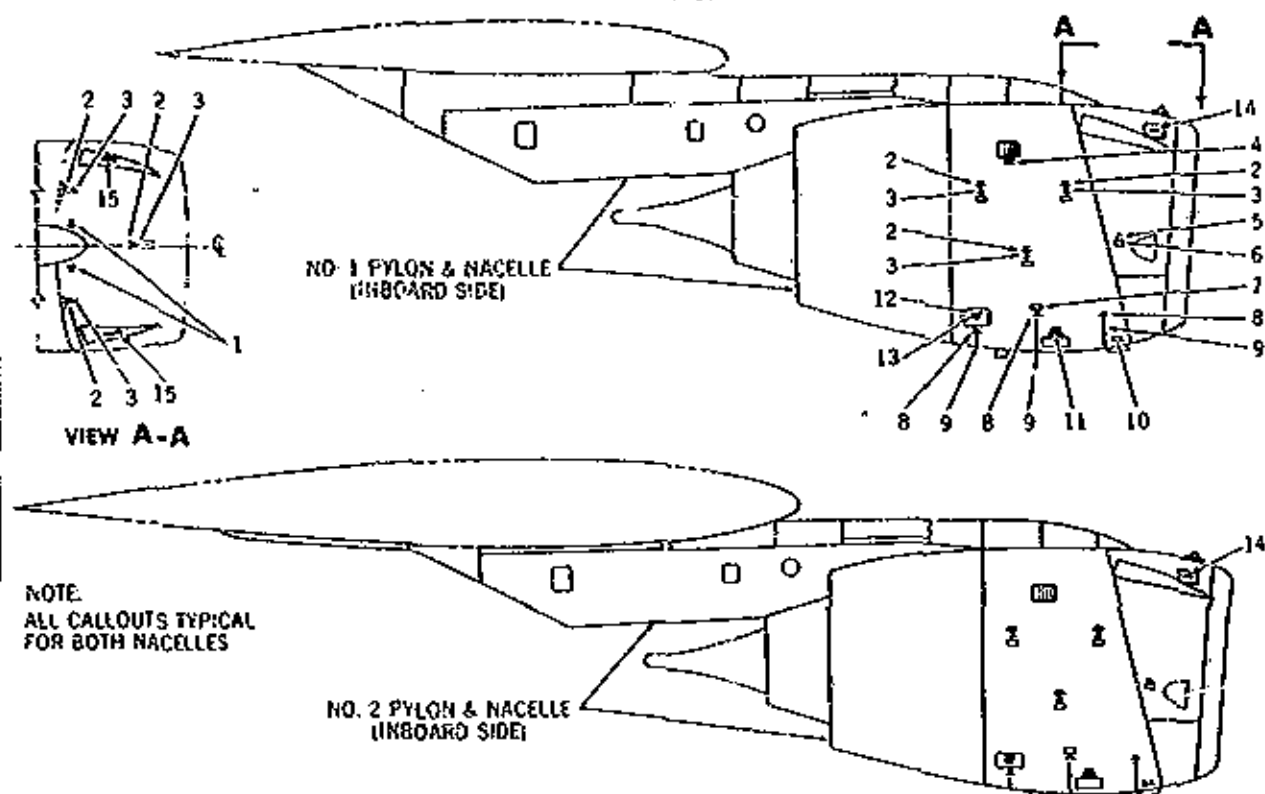
22 INTERPHONE JACK ACCESS INSTALL PRIOR TO FLIGHT

23 BORESCOPE INSPECTION ACCESS INSTALL PRIOR TO FLIGHT

HA2-8703C

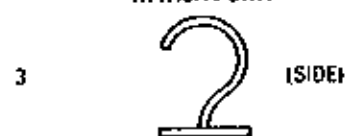
Engine Cowlings -- External Markings  
 Figure 1

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



1 PYLON LE EDGE  
 REMOVE BEFORE  
 NOSE COWL

2 HOIST  
 ATTACH POINT



2 HOIST  
 ATTACH POINT

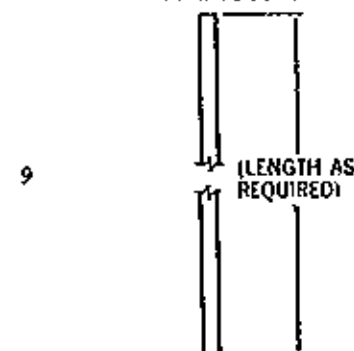
4 COOLING EXHAUST  
 FAN COMPT VENT

5 ANTI-ICING  
 EXHAUST VENT

6 **CAUTION  
 HOT GND EXH**

7 **CAUTION  
 WHEN OPENING  
 IN HIGH WIND**

8 LATCH  
 FAN COMPT DOORS



9 (LENGTH AS  
 REQUIRED)

10 COOLING INTAKE  
 FAN COMPT DOORS

11 COS OIL  
 SIGHT GLASS  
 PRES FILL CONN

12 ENG START VALVE

13 **CAUTION  
 HOT**

14 INLET ACCESS

15 NO STEP

HA2-87046

Engine Cowlings -- External Markings  
 Figure 2

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

NOTE:  
 ALL CALLOUTS TYPICAL  
 FOR BOTH NACELLES

NO. 3 PYLON & NACELLE  
 (OUTBOARD SIDE)

NO. 4 PYLON & NACELLE  
 (OUTBOARD SIDE)

VIEW A-A

1 PYLON LD EDGE  
 REMOVE BEFORE  
 NOSE COWL

2 HOIST  
 ATTACH POINT

3 (SIDE)

3 (TOP)

2 HOIST  
 ATTACH POINT

4 COOLING EXHAUST  
 FAN COMPT VENT

5 ANTI-ICING  
 EXHAUST VENT

6 CAUTION  
 HOT GND EXH

7 CAUTION  
 WHEN OPENING  
 IN HIGH WIND

8 LATCH  
 FAN COMPT DOORS

9 LENGTH AS  
 REQUIRED

10 COOLING INTAKE  
 FAN COMPT DOORS

11 COS OIL  
 SIGHT GLASS  
 PRES FILL CONN

12 ENG START VALVE

13 CAUTION  
 HOT

14 INLET ACCESS

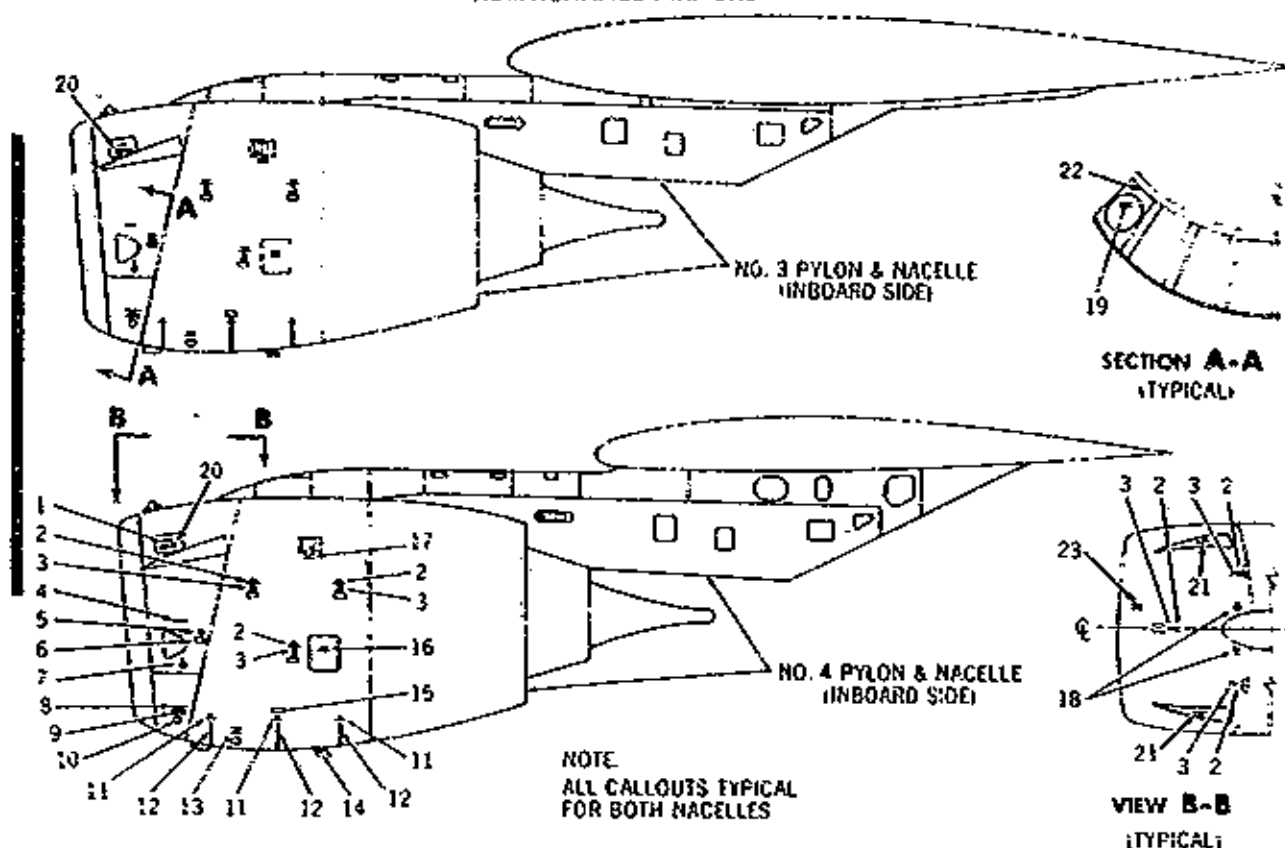
15 NO STEP

Engine Cowlings -- External Markings  
 Figure 3

HA2-87058

11-14-1  
 CODE 50  
 Page 3

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



1 ANTI-ICING DUCT

2 HOIST ATTACH POINT

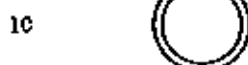


4 STATIC GND CONN

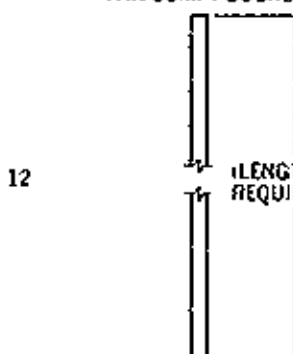
5 ANTI-ICING EXHAUST VENT



8 INTERPHONE JACK



11 LATCH FAN COMP DOORS



13 GEN COOLING AIR EXHAUST

14 ENG & ACCESS DRAIN

15

**CAUTION  
WHEN OPENING  
IN HIGH WIND**

16

ENG OIL  
TANK FILL  
CAPACITY 20 QUARTS

17

COOLING EXHAUST  
FAN COMP VENT

18

PYLON LD EDGE  
REMOVE BEFORE  
NOSE COWL

19

INTERPHONE  
SERVICE ACCESS

20

NAS 1580C3T4

21

NO STEP

22

INTERPHONE JACK ACCESS  
INSTALL PRIOR TO FLIGHT

23

BORESCOPE INSPECTION  
ACCESS  
INSTALL PRIOR TO FLIGHT

HA2-8706C

Engine Cowlings -- External Markings  
 Figure 4

**CHAPTER**

**12**

**SERVICING**

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

C H A P T E R 1 2

S E R V I C I N G



DOUGLAS AIRCRAFT CO., INC.  
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HIGHLIGHTS

TO: ALL HOLDERS OF DC-8 SEVENTY SERIES MAINTENANCE MANUAL

CONCERNING: REVISION 19, CHAPTER 12, DATED: APR 1/88

12-CONT REVISED TO ADD NEW GENERIC TABLE OF CONTENTS.

12-IDENT REVISED TO ADD NEW GENERIC AIRPLANE IDENTIFICATION LIST.

MANUAL UPDATE INSTRUCTIONS

PLEASE INSERT REVISED AND NEW PAGES INTO THIS MANUAL IN ACCORDANCE WITH THE CURRENT LIST OF EFFECTIVE PAGES. ALL EXISTING PAGES IN YOUR MANUAL THAT ARE BEING REPLACED WITH REVISED PAGES ARE TO BE REMOVED FROM YOUR MANUAL.

AN (\*) ASTERISK IN FRONT OF AN ENTRY ON THE LIST OF EFFECTIVE PAGES INDICATES NEW OR REVISED PAGES.

A LIST OF PAGES DELETED BY THE CURRENT REVISION IS BEING FURNISHED AS A PART OF THE HIGHLIGHTS AND DELETED PAGES SHOULD BE REMOVED FROM YOUR MANUAL.

DOUGLAS AIRCRAFT CO., INC.  
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CHAPTER SECTION SUBJECT	CODE	PAGE	DATE	CHAPTER SECTION SUBJECT	CODE	PAGE	DATE
12-TITLE				12-20-3	50	302	JUN 1/82
12-EFF		1	APR 1/88	12-20-3	50	303	JUN 1/84
12-CONT		1	APR 1/88	12-20-3	50A	303	JUN 1/84
12-CONT		2	APR 1/88	12-20-3	50	304	JUN 1/84
12-CONT		3	APR 1/88	12-20-3	50A	304	JUN 1/84
12-IDENT		1	APR 1/88	12-20-3	50	305	MAR 1/84
12-IDENT		2	APR 1/88	12-20-3	50A	305	JUN 1/84
12-IDENT		3	APR 1/88	12-20-4	50	301	JUN 1/82
12-02	50	301	MAR 1/86	12-20-4	50	302	DEC 1/84
12-02	50	302	SEP 1/82	12-20-4	50	303	JUN 1/82
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12-02	51	302	MAR 1/86	12-20-5	50	302	SEP 1/82
12-02	52	301	MAR 1/86	12-20-5	50	303	SEP 1/82
12-02	52	302	SEP 1/82	12-85-1	50	301	APR 1/88
12-02	53	301	MAR 1/86	12-85-1	50	302	APR 1/88
12-02	53	302	SEP 1/82	12-86-1	50	301	DEC 1/82
12-02	54	301	MAR 1/86	12-86-1	50	302	DEC 1/82
12-02	54	302	SEP 1/82	12-86-1	50	303	DEC 1/82
12-11-1	50	301	DEC 1/82	12-86-1	50	304	DEC 1/82
12-12-1	50	301	DEC 1/82	12-86-1	50	305	DEC 1/82
12-13-1	50	301	DEC 1/82	12-86-1	50	306	DEC 1/82
12-20-1	50	301	JUN 1/86	12-86-1	50	307	DEC 1/84
12-20-1	50	302	DEC 1/82	12-86-1	50	308	DEC 1/82
12-20-1	50	303	DEC 1/82	12-86-1	50	309	DEC 1/84
12-20-1	50	304	NOV 1/81	12-86-1	50	310	DEC 1/82
12-20-1	50	304A	DEC 1/82	12-86-1	50	311	DEC 1/82
12-20-1	50	304B	DEC 1/82	12-86-1	50	312	DEC 1/82
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12-20-1	50	306	JUN 1/86				
12-20-1	50	306A	SEP 1/83				
12-20-1	50	307	JUN 1/86				
12-20-1	50	308	SEP 1/83				
12-20-2	50	301	MAR 1/86				
12-20-2	50	302	DEC 1/82				
12-20-2	50	303	JUN 1/84				
12-20-2	50	304	DEC 1/82				
12-20-2	50	305	DEC 1/82				
12-20-2	51	301	MAR 1/86				
12-20-2	51	302	MAR 1/86				
12-20-2	51	303	MAR 1/86				
12-20-2	51	304	MAR 1/86				
12-20-2	51	305	MAR 1/86				
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\*The asterisk indicates pages revised or added by the current revision.

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CONSTANT SPEED DRIVE (CSD) TRANSMISSION----- Servicing-----	12-20-3	301	CODE 50	ALL
AIR CONDITIONING UNIT AIR CYCLE MACHINE----- Servicing-----	12-20-4	301	CODE 50	ALL
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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Numbers	Fuselage Numbers
DC8-71	45810	252
DC8-71	45811	262
DC8-71	45812	277
DC8-71	45813	284
DC8-71	45849	289
DC8-71	45891	305
DC8-71CF	45897	313
DC8-71CF	45898	320
DC8-71CF	45900	316
DC8-71CF	45902	294
DC8-71	45907	288
DC8-71	45913	325
DC8-71	45914	292
DC8-71	45915	295
DC8-73CF	45936	344
DC8-71CF	45938	331
DC8-71CF	45939	351
DC8-71	45941	317
DC8-71	45944	326
DC8-71	45945	337
DC8-71	45946	339
DC8-71	45947	341
DC8-71CF	45948	321
DC8-71CF	45949	329
DC8-71CF	45950	354
DC8-71CF	45952	338
DC8-71	45963	355
DC8-73CF	45966	393
DC8-73CF	45967	385
DC8-73CF	45968	389
DC8-71	45970	343
DC8-71	45971	356
DC8-71	45973	358
DC8-71	45974	368
DC8-71	45975	369
DC8-71	45976	372
DC8-71	45977	373
DC8-71	45978	381
DC8-71	45979	363

DOUGLAS AIRCRAFT CO., INC.  
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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	45983	350
DC8-73CF	45990	375
DC8-73CF	45991	380
DC8-71	45993	382
DC8-71	45994	387
DC8-71	45995	388
DC8-71	45996	397
DC8-71	45997	398
DC8-71	45998	399
DC8-73CF	46001	395
DC8-73CF	46002	394
DC8-73AF	46003	401
DC8-73AF	46004	403
DC8-73AF	46006	413
DC8-73AF	46007	422
DC8-73AF	46008	423
DC8-72CF	46013	427
DC8-71	46014	400
DC8-71	46018	420
DC8-73AF	46019	411
DC8-71	46029	425
DC8-71	46030	426
DC8-73	46033	431
DC8-71	46039	448
DC8-71	46040	449
DC8-72CF	46043	443
DC8-73AF	46044	432
DC8-73CF	46045	441
DC8-73CF	46046	444
DC8-73CF	46047	447
DC8-71	46048	450
DC8-73CF	46049	479
DC8-73CF	46051	440
DC8-73CF	46052	442
DC8-73	46053	446
DC8-71	46055	492
DC8-71	46056	495
DC8-73CF	46059	456
DC8-73CF	46062	486
DC8-73	46063	457

DOUGLAS AIRCRAFT CO., INC.  
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AIRPLANE IDENTIFICATION

Manufacturing Series	Factory Serial Number	Fuselage Number
DC8-71	46064	459
DC8-71	46065	460
DC8-71	46066	462
DC8-72	46067	455
DC8-71	46072	477
DC8-73CF	46073	485
DC8-73AF	46074	468
DC8-73	46076	451
DC8-73AF	46080	466
DC8-72	46081	471
DC8-72	46082	458
DC8-72	46084	473
DC8-73CF	46086	478
DC8-73CF	46087	454
DC8-73CF	46089	501
DC8-73CF	46090	504
DC8-73CF	46091	519
DC8-73CF	46094	482
DC8-73	46095	497
DC8-71	46099	507
DC8-73	46100	502
DC8-73CF	46101	489
DC8-73CF	46103	483
DC8-73CF	46104	488
DC8-73CF	46106	490
DC8-73CF	46108	522
DC8-73CF	46109	493
DC8-73CF	46112	520
DC8-73CF	46117	525
DC8-73	46123	508
DC8-73	46124	511
DC8-73	46125	515
DC8-72CF	46130	542
DC8-73CF	46133	534
DC8-73CF	46135	531
DC8-73CF	46140	528
DC8-73CF	46149	538



DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

GENERAL - SERVICING

QUANTITY

SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
<u>ENGINE OIL SYSTEM</u>				EXXON/ESSO 2380
ENGINE OIL TANK				
NET OIL CAPACITY (Fill Quantity)	5.0	4.2	18.9	
SUMP VOLUME	0.5	0.4	1.9	
EXPANSION VOLUME	0.5	0.4	1.9	
TOTAL TANK VOLUME	5.5	6.6	20.8	
USABLE ENGINE OIL	4.5	3.7	17.0	
PNEUMATIC STARTERS				
R GARRETT	19.30	16.07	570 cc	
R	Fluid ounces	Fluid ounces		
R BENDIX	8.45	7.04	250 cc	
R	Fluid ounces	Fluid ounces		

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 1)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

QUANTITY				
SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
CONSTANT SPEED DRIVE (CSD) TRANSMISSION OIL SYSTEM (Approximate Fill Quantity)	1.50 (12 pints)	1.25	5.68	Sundstrand Specification MS 02.40 (as revised).
AIR CONDITIONING UNIT AIR CYCLE MACHINE	10.15 ounces	10.15 ounces	300 cc	AiResearch Service Informa- tion Letter No. 100-300 (as revised).
R AUXILIARY POWER R UNIT (APU) R				AiResearch Specification (as revised).
R APU OIL TANK	1.0	.83	3.79	

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

GENERAL - SERVICING

SYSTEM/ COMPONENT	QUANTITY			SPECIFICATION RECOMMENDED
	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	
<u>ENGINE OIL</u> <u>SYSTEM</u>				EXXON/ESSO 2389
ENGINE OIL TANK				
NET OIL CAPACITY (Fill Quantity)	5.0	4.2	18.9	
SUMP VOLUME	0.5	0.4	1.9	
EXPANSION VOLUME	0.5	0.4	1.9	
TOTAL TANK VOLUME	5.5	6.6	20.8	
USABLE ENGINE OIL	4.5	3.7	17.0	
PNEUMATIC STARTERS				
R GARRETT	19.30	16.07	570 cc	
R	Fluid ounces	Fluid ounces		
R BENDIX	8.45	7.04	250 cc	
R	Fluid ounces	Fluid ounces		

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 1)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

QUANTITY				
SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
CONSTANT SPEED DRIVE (CSD) TRANSMISSION OIL SYSTEM (Approximate Fill Quantity)	1.50 (12 pints)	1.25	5.68	Sundstrand Specification MS 02.40 (as revised).
AIR CONDITIONING UNIT AIR CYCLE MACHINE	10.15 ounces	10.15 ounces	300 cc	AirResearch Service Informa- tion Letter No. 100-380 (as revised).
R AUXILIARY POWER R UNIT (APU) R				AirResearch Specification (as revised).
R APU OIL TANK	1.0	.83	3.79	

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
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GENERAL - SERVICING

QUANTITY

SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
<u>ENGINE OIL SYSTEM</u>				GE Specification D50TF1, Class A or Class B per MIL-L-7808G, or MIL-L-23699B
ENGINE OIL TANK				
NET OIL CAPACITY (Full Quantity)	5.0	4.2	18.9	
SUMP VOLUME	0.5	0.4	1.9	
EXPANSION VOLUME	0.5	0.4	1.9	
TOTAL TANK VOLUME	5.5	6.6	20.8	
USABLE ENGINE OIL	4.5	3.7	17.0	

PNEUMATIC STARTERS

R	GARRETT	19.30	16.07	570 cc
R		Fluid ounces	Fluid ounces	
R	RENDIX	8.45	7.04	250 cc
R		Fluid ounces	Fluid ounces	

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 1)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
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QUANTITY				
SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
CONSTANT SPEED DRIVE (CSD) TRANSMISSION OIL SYSTEM (Approximate Fill Quantity)	1.50 (12 pints)	1.25	5.68	Sundstrand Specification MS 02.40 (as revised).
AIR CONDITIONING UNIT AIR CYCLE MACHINE	10.15 ounces	10.15 ounces	300 CC	AiResearch Service Informa- tion Letter No. 100-300 (as revised).
R AUXILIARY POWER R UNIT (APU) R				AiResearch Specification (as revised).
R APU OIL TANK	1.0	.83	3.79	

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
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GENERAL - SERVICING

SYSTEM/ COMPONENT	QUANTITY			SPECIFICATION RECOMMENDED	
	US GALLONS	IMPERIAL GALLONS	METRIC LITERS		
<u>ENGINE OIL SYSTEM</u>					Mobil Type 2
ENGINE OIL TANK					
NET OIL CAPACITY (Fill Quantity)	5.0	4.2	18.9		
SUMP VOLUME	0.5	0.4	1.9		
EXPANSION VOLUME	0.5	0.4	1.9		
TOTAL TANK VOLUME	5.5	6.6	20.8		
USABLE ENGINE OIL	4.5	3.7	17.0		
PNEUMATIC STARTERS					
R GARRETT	19.30	16.07	570 cc		
R	Fluid ounces	Fluid ounces			
R BENDIX	8.45	7.04	250 cc		
R	Fluid ounces	Fluid ounces			

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 1)

DOUGLAS AIRCRAFT CO., INC.  
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QUANTITY				
SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
CONSTANT SPEED DRIVE (CSD) TRANSMISSION OIL SYSTEM (Approximate Fill Quantity)	1.50 (12 pints)	1.25	5.68	Sundstrand Specification HS 02.40 (as revised).
AIR CONDITIONING UNIT AIR CYCLE MACHINE	10.15 ounces	10.15 ounces	300 CC	AiResearch Service Informa- tion Letter No. 100-300 (as revised).
R AUXILIARY POWER R UNIT (APU) R				AiResearch Specification (as revised).
R APU OIL TANK	1.0	.83	3.79	

Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 2)



DOUGLAS AIRCRAFT CO., INC.  
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QUANTITY				
SYSTEM/ COMPONENT	US GALLONS	IMPERIAL GALLONS	METRIC LITERS	SPECIFICATION RECOMMENDED
CONSTANT SPEED DRIVE (CSD) TRANSMISSION OIL SYSTEM (Approximate Fill Quantity)	1.50 (12 pints)	1.25	5.68	Sundstrand Specification HS 02.40 (as revised).
AIR CONDITIONING UNIT AIR CYCLE MACHINE	10.15 ounces	10.15 ounces	300 CC	AiResearch Service Informa- tion Letter No. 100-300 (as revised).
R AUXILIARY POWER R UNIT (APU) R				AiResearch Specification (as revised).
R APU OIL TANK	1.0	.83	3.79	

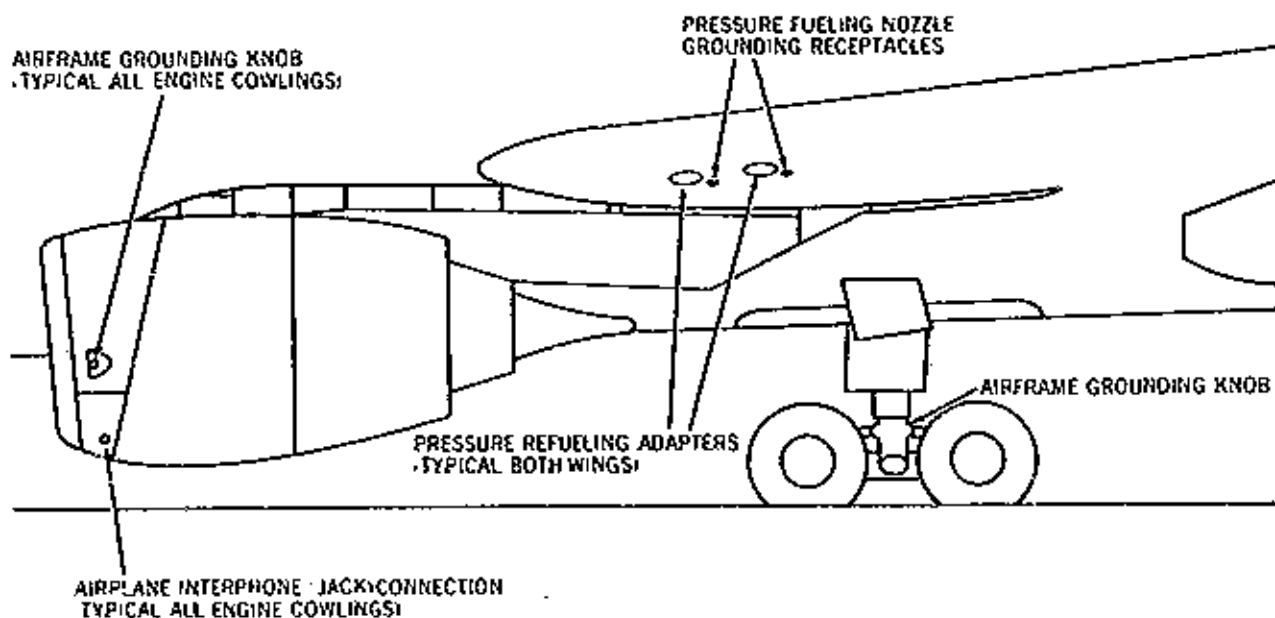
Replenishment Chart -- Oil Systems  
 Figure 301 (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
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GRAVITY REFUELING - SERVICING

1. General

- A. The procedure for gravity refueling is the same as outlined in the DC-8-60 Maintenance Manual. The only difference is location of the interphone jacks, which are now located below the ground connection on the left side of the engine nose cowl.



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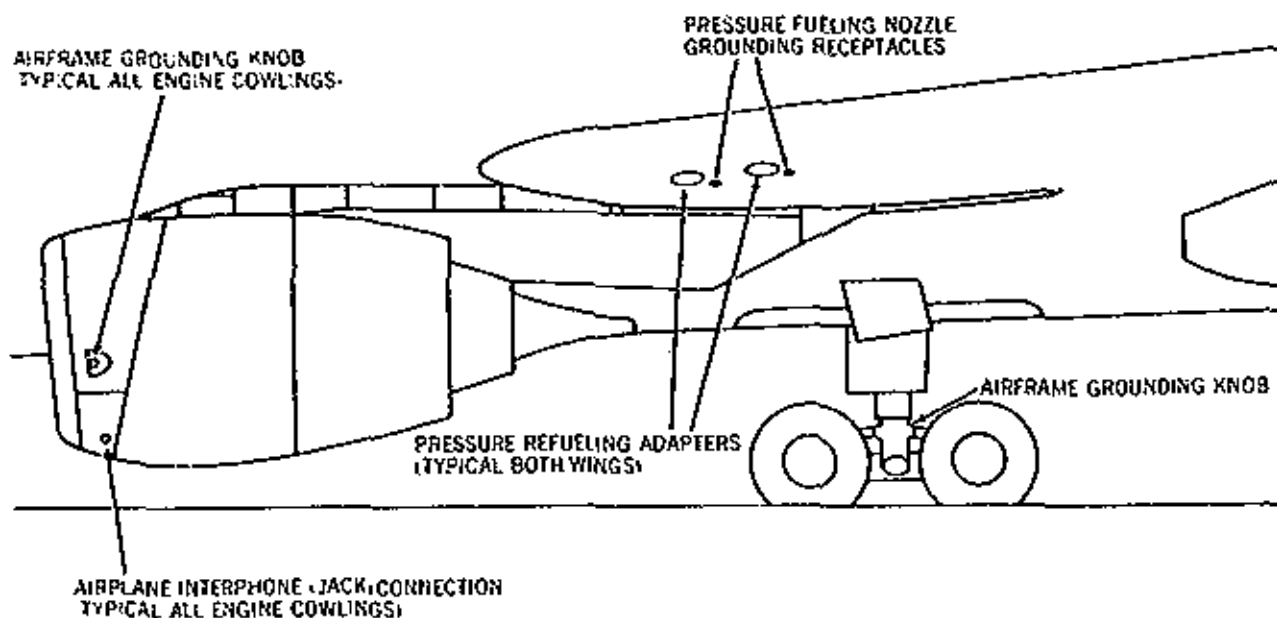
Gravity Refueling - Servicing  
Figure 301

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

DEFUELING - SERVICING

1. General

- A. The procedure for defueling is the same as outlined in the DC-8-60 Series Maintenance Manual. The only difference is location of the interphone jacks which are now located below the ground connection on the left side of the engine nose cowl.



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Defueling - Servicing  
Figure 301

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

ENGINE OIL SYSTEM - SERVICING

1. General

- A. Procedures for servicing all engine oil system tanks are identical.
- B. The engine oil tank fill port and drain provisions are located on the forward upper left side of the engines. The oil tank gravity fill port is accessible through access doors 182, 282, 382, and 482. (see Chapter 6). The oil tank drain valves are accessible through left fan cowl doors 181, 281, 381, and 481.
- C. The recommended approved oil specifications and oil tank capacity are shown on the oil systems replenishment chart (12-02, General Servicing).

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items.

Item	Name	Number	Manufacturer	Use
A	Oil tank drain adapter	856A2502G01 (Europe Version) 856A2502G06 (U.S. Version)		Drain engine oil tank
8	Drain oil container	6 US Gallons	Commercially available	Receive drain oil

3. Service Engine Oil System

WARNING: JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES ON WHICH JET ENGINE OIL HAS BEEN SPILLED, SHOULD BE CLEANED IMMEDIATELY.

INADVERTENT OPERATION OF ENGINE THRUST REVERSERS COULD CAUSE SERIOUS INJURY TO PERSONNEL WORKING IN ENGINE AREAS.

HOT OIL GUSHING FROM TANK COULD CAUSE SEVERE BURNS. ALLOW TANK PRESSURE TO BLEED OFF. WAIT AT LEAST 5 MINUTES AFTER ENGINE SHUTDOWN BEFORE REMOVING OIL TANK CAP.

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**CAUTION:** USE ONLY RECOMMENDED APPROVED JET ENGINE OIL WHEN SERVICING ENGINE OIL SYSTEMS. SEE OIL SYSTEMS REPLENISHMENT CHART (12-02, GENERAL SERVICING) FOR APPROVED OIL.

IF OIL SYSTEM IS INADVERTENTLY SERVICED WITH FLUID DISSIMILAR TO SYNTHETIC OIL, SUCH AS MIL-L-6081 OR HYDRAULIC FLUID, ENGINE SHOULD NOT BE OPERATED UNTIL EFFECTS ON ENGINE HAVE BEEN ASSESSED.

ENSURE EXTREME CLEANLINESS WHEN SERVICING ENGINE OIL SYSTEM. OIL SCUPPER MUST BE CLEAN TO PREVENT DIRT FROM BEING WASHED INTO TANK DURING OIL FILLING.

SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1*	Engine oil tank	OJE	Can or dispenser	4

\* See engine oil system servicing procedures.

R OJE oil - Jet engine (CFM56 SB 79-1, as revised)

R frequency interval recommended: On condition - Change oil in accordance with Pratt & Whitney recommendation. (See CFM 56 Maintenance Manual, Chapter 12-10-00.)  
R

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A. Check Engine Oil Tank Oil Level

- (1) Check engine oil tank oil level after flight or engine run-up while oil remaining in tank is still hot and within 30 minutes following engine shutdown. Due to thermal expansion, a change in oil temperature of 60°C allows a variation in oil volume of approximately 0.8 quart (0,77 liter). Replenishment when oil in tank is cold results in overflow during engine operation.

**WARNING:** HOT OIL GUSHING FROM TANK COULD CAUSE SEVERE BURNS. ALLOW TANK PRESSURE TO BLEED OFF. WAIT AT LEAST 5 MINUTES AFTER ENGINE SHUTDOWN BEFORE REMOVING OIL TANK CAP.

- R (1a) Using clean, lint-free cloth or equivalent, clean oil tank scupper  
R before removing fill cap.
- R (2) Remove oil tank fill cap (see Figure 302).
- R (3) Check reading on tank dipstick (See Figure 302A).
- (4) Install dipstick and fill cap.

**CAUTION:** MAKE CERTAIN FILL CAP IS SECURE.

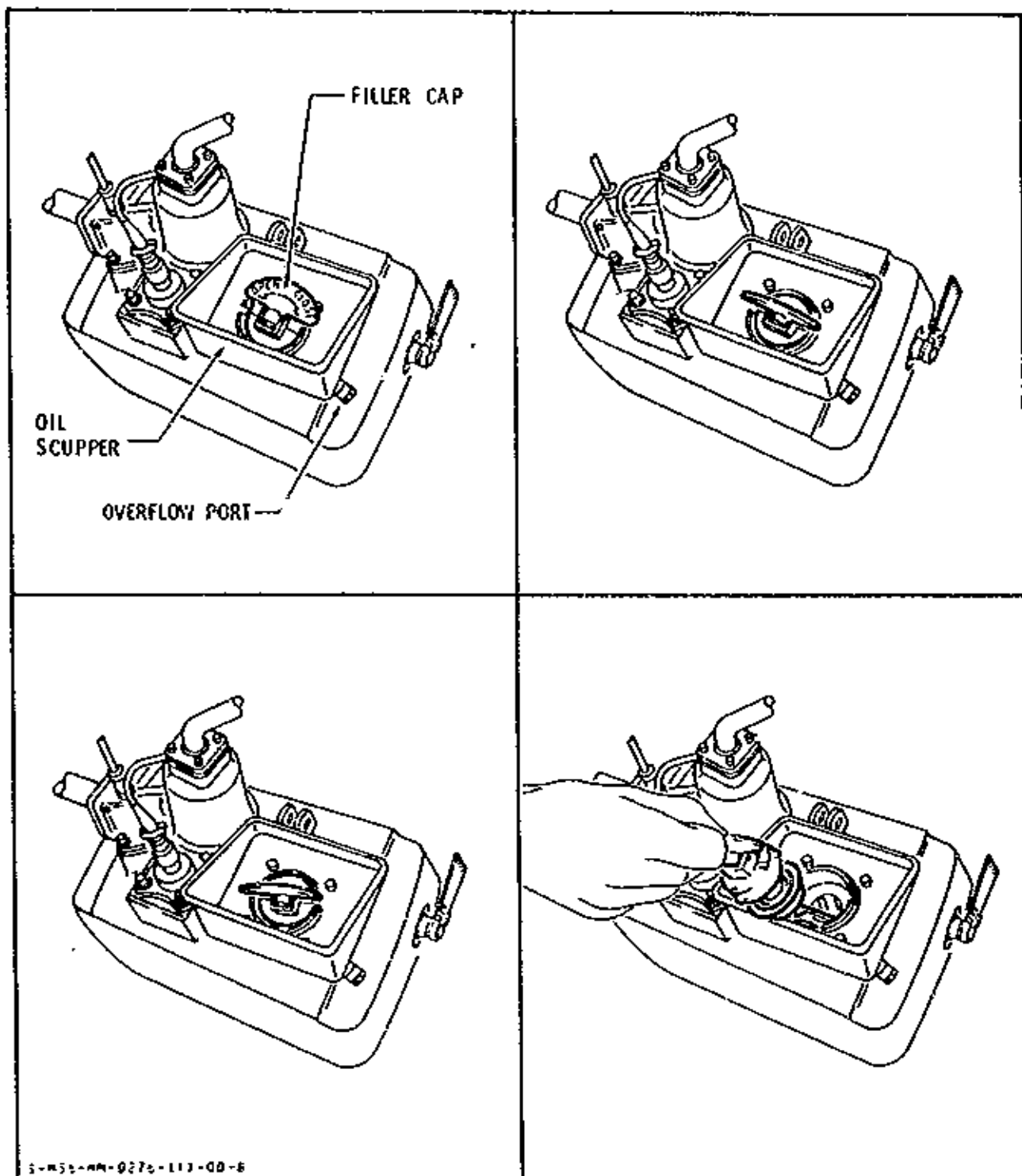
B. Add Oil

**CAUTION:** DO NOT OVERFILL ENGINE OIL TANK. ENSURE THAT PROPER OIL LEVEL CHECK IS MADE BEFORE ADDING OIL.

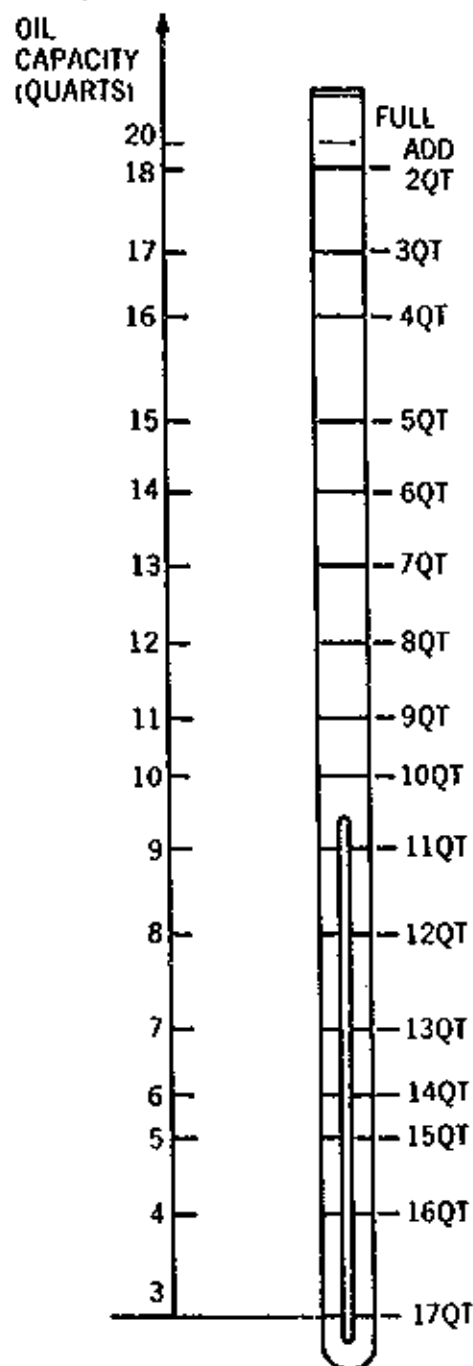
- (1) Remove oil tank fill cap.

**WARNING:** HOT OIL GUSHING FROM TANK COULD CAUSE SEVERE BURNS. ALLOW TANK PRESSURE TO BLEED OFF. WAIT AT LEAST 5 MINUTES AFTER ENGINE SHUTDOWN BEFORE REMOVING OIL TANK CAP.

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Oil Tank Dipstick Graduations  
 Figure 302A

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(2) Fill oil tank to desired level.

CAUTION: IF OIL SYSTEM IS INADVERTENTLY SERVICED WITH FLUID DISSIMILAR TO SYNTHETIC OIL, SUCH AS MIL-L-6081 OR HYDRAULIC FLUID, ENGINE SHOULD NOT BE OPERATED UNTIL EFFECTS ON ENGINE HAVE BEEN ASSESSED.

NOTE: It is not desirable to mix different brands or types of oil. When changing from one brand of oil to another, drain the oil system as completely as possible and fill tank with new brand or type of oil.

NOTE: Oil replenishment is to be performed after flight or engine run-up while oil remaining in the tank is still hot and within 30 minutes following engine shutdown. Due to thermal expansion, a change in oil temperature of 60°C allows a variation in oil volume of approximately 0.8 quart (0.77 liter). Replenishment when oil in tank is cold results in overflow during engine operation.

NOTE: Add oil to lesser number of quarts low. (Example: Dipstick shows between 4 QI ADD and 5 QI ADD; only add 4 quarts.)

R  
R

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- (3) Install fill cap.

**CAUTION:** MAKE CERTAIN FILL CAP IS SECURE.

**C. Drain Engine Oil Tank**

- (1) Operate engine at 75 percent  $N_2$  RPM for 1 minute immediately before draining oil tank.

**WARNING:** DUE TO THERMAL EXPANSION, A CHANGE IN OIL TEMPERATURE OF 60°C ALLOWS A VARIATION IN OIL VOLUME OF APPROXIMATELY 0.8 QUART (0.77 LITER). HOT OIL GUSHING FROM TANK COULD CAUSE SEVERE BURNS. WAIT AT LEAST 5 MINUTES AFTER ENGINE SHUTDOWN BEFORE REMOVING OIL TANK CAP. ALLOW TANK PRESSURE TO BLEED OFF.

**WARNING:** MAKE CERTAIN THAT TAP OF OIL DRAIN ADAPTER IS CLOSED BEFORE INSTALLING ADAPTER ON OIL TANK. HOT OIL GUSHING FROM TANK COULD CAUSE BURNS.

**NOTE:** Engine operation is not required if oil tank is drained within 30 minutes after engine shutdown. Engine must be operated to return a maximum amount of oil to the oil tank before draining tank.

- (2) Tag throttle/thrust reverser lever, and open and tag following circuit breakers.

**NOTE:** Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stop	Ac bus 3
Thrust reverser hyd valve	Dc bus 4
Reverse thrust	Dc bus 1 or 4
Eng oil quantity	Dc bus 1 or 4

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- (3) Remove oil tank fill cap.
- (4) Remove magnetic plug from tank. Remove O-ring from groove and discard.
- R (5) Connect oil drain adapter, 856A2502, to a drain tube running to a can  
 R of 6 US gal. (23 liters) capacity. Push adapter into oil draining  
 port and turn to lock. See figure 303.
- R (6) Drain oil tank by opening tap. After draining, fully close tap and  
 R disengage adapter.
- R (6a) Check that self-sealing drain plug seals properly, without any leakage.
- (7) Clean magnetic plug groove, lightly lubricate new O-ring with engine  
 oil, and install O-ring in magnetic plug groove.

**CAUTION:** FAILURE TO INSTALL O-RING ON MAGNETIC PLUG CAN RESULT IN  
 EXCESSIVE OIL LOSS DURING ENGINE OPERATION, WITH POSSIBLE  
 ENGINE FAILURE.

- (8) Install magnetic plug in tank drain plug.

**CAUTION:** KEEP MAGNETIC PLUG ALIGNED TO PREVENT O-RING INTERFERENCE  
 WITH SELF-SEALING DRAIN PLUG.

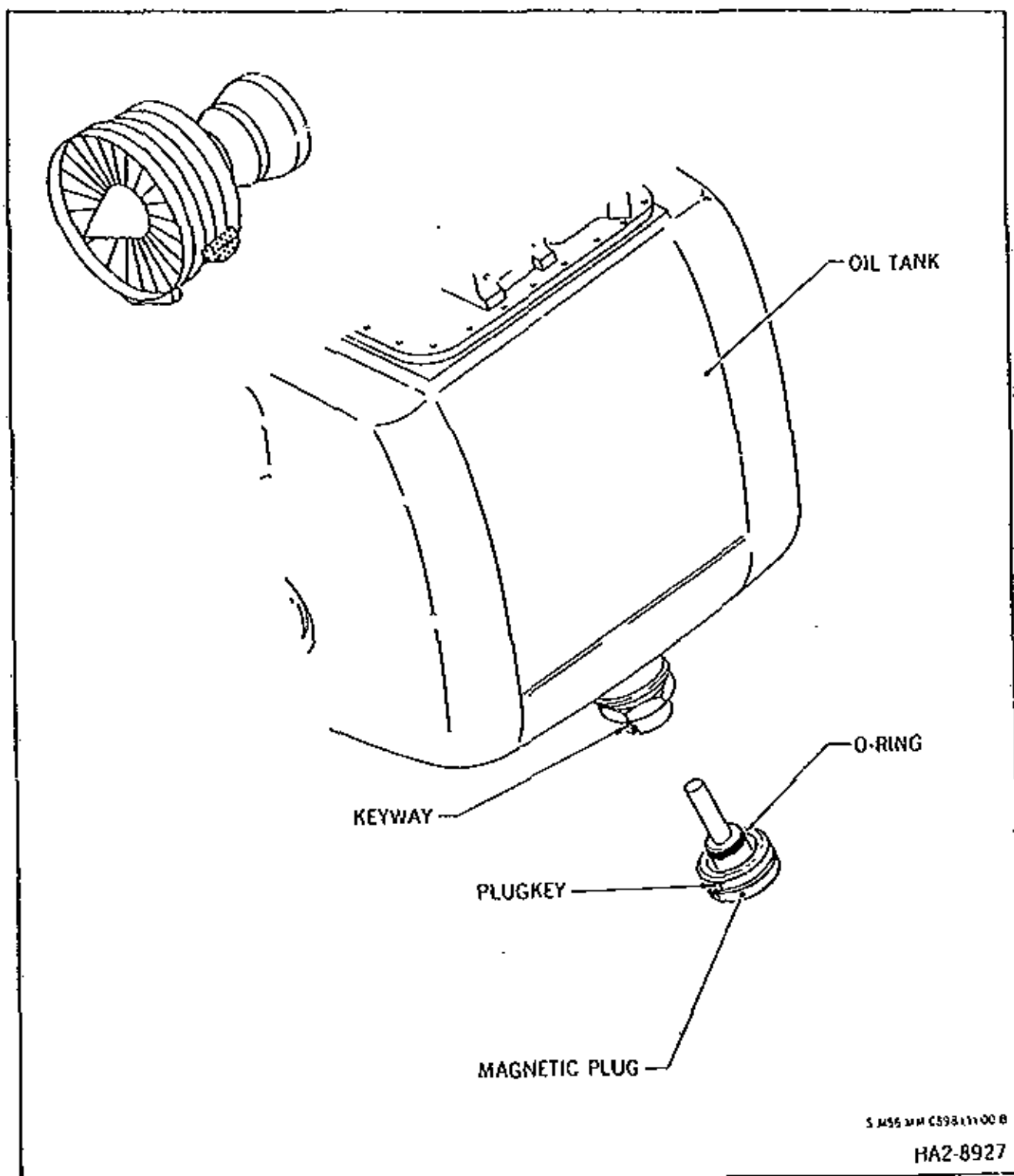
#### D. Fill Engine Oil Tank

- (1) Make certain throttle/thrust reverser lever is tagged and following  
 circuit breakers are open:

**NOTE:** Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stop	Ac bus 3
Thrust reverser hyd valve	Dc bus 4
Reverse thrust	Dc bus 1 or 4
Eng oil quantity	Dc bus 1 or 4

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Oil Tank Magnetic Plug - Removal/Installation  
Figure 302B

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- (2) Remove oil tank fill cap.
- (3) Fill oil tank to desired level.
- (4) Install fill cap.
- (5) Remove tag from throttle/thrust reverser lever and close following circuit breakers:

NOTE: Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pur supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stop	Ac bus 3
Thrust reverser hyd valve	Dc bus 4
Reverse thrust	Dc bus 1 or 4
Eng oil quantity	Dc bus 1 or 4

DOUGLAS AIRCRAFT CO., INC.  
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PNEUMATIC STARTERS (GARRETT) - SERVICING

1. General

- A. The pneumatic starter is mounted on the right pad of the transfer gearbox. The starters are interchangeable. Access is gained through the right fan cowl door No. 183. Servicing procedures for engine starters on all engines are identical.

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items:

Item	Name	Number	Manufacturer	Use
A	Container (approximately one US quart)			Catch drained oil

3. Servicing Pneumatic Starters

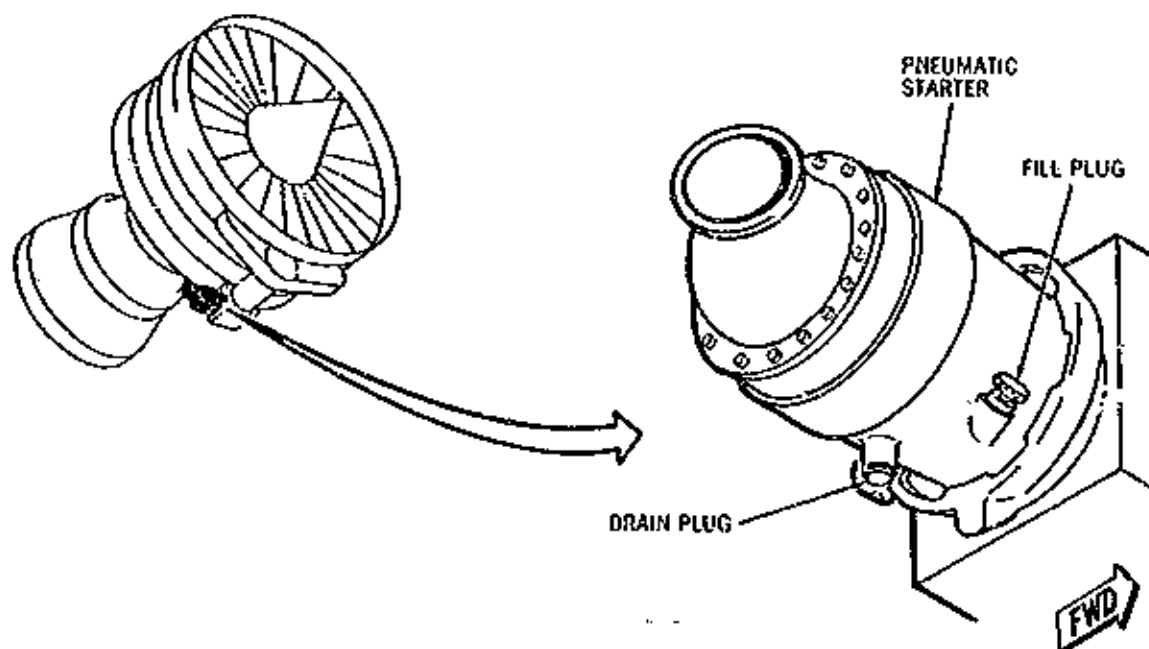
A. Fill Starter Housing With Oil

- (1) Make certain that throttle/thrust reverser lever is tagged and that following circuit breakers are open and tagged:

NOTE: Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus

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Pneumatic Starters - Servicing  
Figure 301

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Circuit Breaker	Section
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stow	Ac bus 3
Reverse thrust	Dc bus 1 or 4

(2) Make certain that thrust reverser hydraulic system manual shutoff normal and emergency stow valves, located in left main gear wheel well, are closed.

(3) Remove fill plug.

(4) Fill starter housing through fill port until oil flows from fill port.

NOTE: Amount of engine oil used will be less than 1 quart (approximately 570 C.C.)

(5) Install fill port plug. Tighten plug to torque of 65 to 85 inch-pounds, and safety with lockwire.

(6) Remove tag from throttle/thrust reverser lever, and remove tags and close following circuit breakers:

NOTE: Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stow	Ac bus 3
Reverse thrust	Dc bus 1 or 4



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MAINTENANCE MANUAL

- (7) Open thrust reverser hydraulic system manual shutoff normal and emergency stop valves, located in left main gear wheel well. Safety valves in open position with lockwire.

**WARNING:** MAKE CERTAIN FLIGHT COMPARTMENT THRUST REVERSER LEVER POSITION CORRESPONDS WITH THRUST REVERSER TRANSLATING COWL POSITION AND THAT ALL PERSONNEL AND EQUIPMENT ARE WELL CLEAR OF THRUST REVERSERS ON ALL FOUR ENGINES BEFORE OPENING MANUAL SHUTOFF VALVES. INADVERTENT THRUST REVERSER OPERATION COULD RESULT IN DEATH OR SERIOUS INJURY TO PERSONNEL.

**B. Drain Oil From Starter Housing**

- (1) Tag throttle/thrust reverser lever and open and tag following circuit breakers:

**NOTE:** Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stop	Ac bus 3
Reverse thrust	Dc bus 1 or 4

- (2) Close thrust reverser hydraulic system manual shutoff normal and emergency stop valves, located in left main gear wheel well.
- (3) Remove fill plug.
- (4) Remove drain plug and drain oil into container.

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- (5) Carefully examine oil removed from starter for metal particles.

NOTE: Fine metal particles indicate normal wear. Large pieces of metal indicate internal damage.

- (6) Clean drain plug and check that metal seals are in good condition. If not, discard and install new seals.
- (7) Install drain plug, tighten plug to torque of 65 to 85 inch-pounds and safety with lockwire.

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PNEUMATIC STARTERS (BENDIX) - SERVICING

1. General

- A. The pneumatic starter is mounted on the right pad of the transfer gearbox. The starters are interchangeable. Access is gained through the right fan cowl door No. 183. Servicing procedures for engine starters on all engines are identical.

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items:

Item	Name	Number	Manufacturer	Use
A	Container (approximately one US quart)			Catch drained oil

3. Servicing Pneumatic Starters

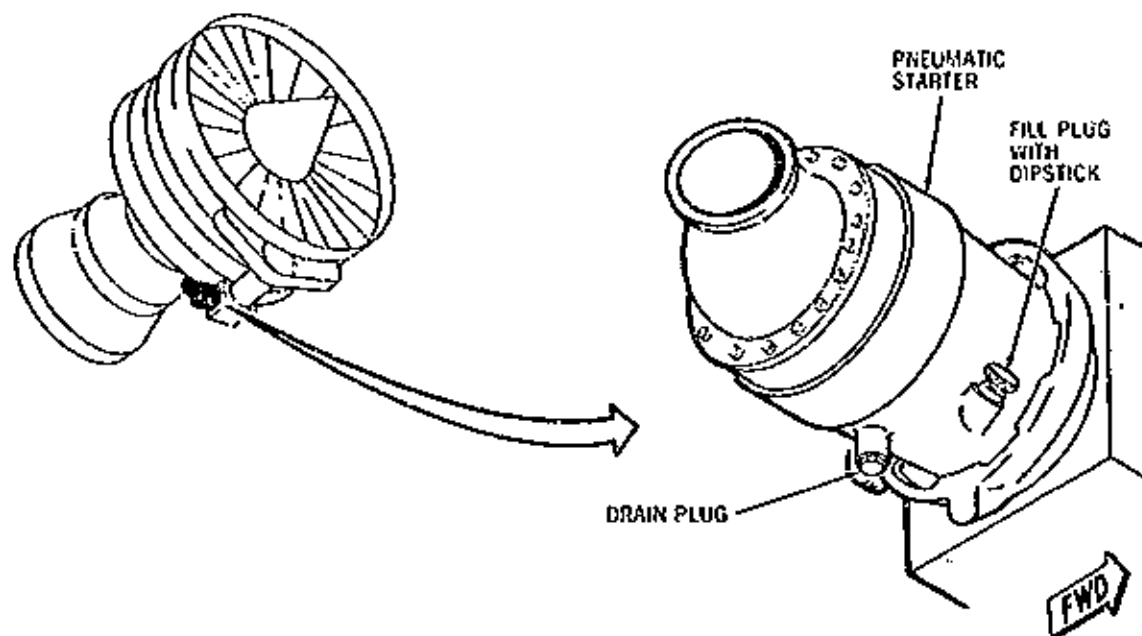
A. Fill Starter Housing With Oil

- (1) Make certain that throttle/thrust reverser lever is tagged and that following circuit breakers are open and tagged:

NOTE: Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus

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Pneumatic Starters - Servicing  
Figure 301

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Circuit Breaker	Section
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stow	Ac bus 3
Reverse thrust	Dc bus 1 or 4

- (2) Make certain that thrust reverser hydraulic system manual shutoff normal and emergency stow valves, located in left main gear wheel well, are closed.

- (3) Remove fill plug.

- (4) With starter installed, fill starter housing through fill port. Use dipstick to check that oil level is within range.

**CAUTION:** DO NOT OVERFILL STARTER. OVERFILLING WILL PRODUCE STARTER OVERHEATING. IF STARTER IS OVERFILLED, DRAIN EXCESS FROM DRAIN PORT.

**NOTE:** Amount of engine oil used will be less than 1 quart (approximately 250 C.C.)

- (5) Install fill port plug. Tighten plug to torque of 80 to 90 inch-pounds, and safety with lockwire.
- (6) Remove tag from throttle/thrust reverser lever, and remove tags and close following circuit breakers:

**NOTE:** Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus

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Circuit Breaker	Section
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stow	Ac bus 3
Reverse thrust	Dc bus 1 or 4

- (7) Open thrust reverser hydraulic system manual shutoff normal and emergency stow valves, located in left main gear wheel well. Safety valves in open position with lockwire.

**WARNING:** MAKE CERTAIN FLIGHT COMPARTMENT THRUST REVERSER LEVER POSITION CORRESPONDS WITH THRUST REVERSER TRANSLATING COWL POSITION AND THAT ALL PERSONNEL AND EQUIPMENT ARE WELL CLEAR OF THRUST REVERSERS ON ALL FOUR ENGINES BEFORE OPENING MANUAL SHUTOFF VALVES. INADVERTENT THRUST REVERSER OPERATION COULD RESULT IN DEATH OR SERIOUS INJURY TO PERSONNEL.

**B. Drain Oil From Starter Housing**

- (1) Tag throttle/thrust reverser lever and open and tag following circuit breakers:

**NOTE:** Numbering on circuit breaker panel denotes engine position.

Circuit Breaker	Section
Engine ignition	Ac bus 1, 2, 3, or 4
Engine starters	Battery bus
Ignition P.S. control (Engines 2 and 3)	Battery bus
Ignition & tach pwr supply (Engines 2 and 3)	Battery bus
Thrust reverser emer stow	Ac bus 3
Reverse thrust	Dc bus 1 or 4

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- (2) Close thrust reverser hydraulic system manual shutoff normal and emergency stow valves, located in left main gear wheel well.
- (3) Remove fill plug.
- (4) Remove drain plug and drain oil into container.
- (5) Carefully examine oil removed from starter for metal particles.  
NOTE: Fine metal particles indicate normal wear. Large pieces of metal indicate internal damage.
- (6) Clean drain plug and check that metal seals are in good condition. If not, discard and install new seals.
- (7) Install drain plug, tighten plug to torque of 80 to 90 inch-pounds and safety with lockwire.

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MAINTENANCE MANUAL

CONSTANT SPEED DRIVE (CSD) TRANSMISSION - SERVICING

1. General

- A. Procedures for servicing all engine constant speed drive (CSD) transmission cases and spline cavities are identical.
- B. The CSD transmissions are located below the engines and are mounted on the forward side of the engine accessory drive case.
- C. The output spline cavity serves as an oil reservoir for the generator lubrication system. The generators are self lubricated and do not require lubrication servicing other than maintaining an adequate oil supply in the output spline cavity.
- D. The CSD transmission case and spline cavity capacities, together with the recommended approved oil specifications, are shown on the oil systems replenishment chart (12-02, General Servicing). For oil change procedure, see Chapter 24.

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items.

Item	Name	Number	Manufacturer	Use
A	Pressure service cart or handpump (25 to 30 psi pressure capacity)		Commercially available	Pressure fill CSD transmission oil system
B	CSD service hose coupling half	390500-6	Aeroquip Corp. Aircraft Div. Jackson, Mich.	Connect service hose to CSD coupling half (390200-6)
C	CSD spline cavity service hose coupling half			Connect service hose to input and output spline cavity pressure-fill coupling half
D	Gasket	HS17413-112	Commercially available	Drain plug seal



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3. Service CSD Transmission Case

WARNING: JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES ON WHICH JET ENGINE OIL HAS BEEN SPILLED SHOULD BE CLEANED IMMEDIATELY.

CAUTION: USE ONLY RECOMMENDED, APPROVED JET ENGINE OIL WHEN SERVICING CSD TRANSMISSION OIL SYSTEM. SEE OIL SYSTEMS REPLENISHMENT CHART (12-02), GENERAL SERVICING) FOR RECOMMENDED APPROVED OIL.

A. Add oil

CAUTION: ENSURE EXTREME CLEANLINESS WHEN SERVICING CSD TRANSMISSION OIL SYSTEM.

- (1) Connect service pressure hose coupling to transmission case pressure-fill connector (see Figure 301).
- (2) Slowly pressure fill transmission oil system; use 25 to 30 psi oil fill pressure.
- (3) Continue to add oil until oil appears in green area of sight gage glass. Stop oil flow wait approximately 3 minutes for oil level to stabilize.
- (4) Check oil level gage; add or drain as required to obtain visual indication of oil level within green area on gage.

CAUTION: DO NOT OVERFILL CSD TRANSMISSION OIL SYSTEM. OVERHEATING AND OIL SLUDGING, CAUSED BY OVERFILLING, CAN RESULT IN DRIVE DAMAGE.

- (5) If drain plug is removed to adjust oil level, use following procedure to install plug:
  - (a) Install new gasket (MS17413-112, O-ring) on drain plug.
  - (b) Install drain plug; tighten plug to torque of 75 to 100 inch-pounds.
  - (c) Safety plug with lockwire.
- (6) Remove service hose.

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4. Service CSD Input and Output Spline Cavities

WARNING JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES ON WHICH JET ENGINE OIL HAS BEEN SPILLED SHOULD BE CLEANED IMMEDIATELY

CAUTION USE ONLY RECOMMENDED, APPROVED JET ENGINE OIL WHEN SERVICING CSD TRANSMISSION INPUT AND OUTPUT SPLINE CAVITIES. SEE OIL SYSTEMS REPLENISHMENT CHART (12-02), GENERAL SERVICING FOR RECOMMENDED APPROVED OIL.

A Add Oil (CSD Input Spline Cavity)

- (1) Connect service pressure hose coupling to input spline cavity pressure fill connector (see Figure 301).
- (2) Using 25 to 40 psi oil fill pressure slowly pressure fill input spline cavity until
  - (a) On aircraft before incorp. of SB71-80, oil flows from engine drain mast.
  - (b) On aircraft with SB71-80 incorp. oil flows from uncapped end of Tee fitting on bottom of drain can.

NOTE The input spline cavity fill-connector check valve requires an oil pressure of 20 to 25 psi to open.

- (3) Remove service hose.
- (4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.
- (5) Safety connector cap with lockwire

B Add Oil (CSD Output Spline Cavity)

- (1) Connect service pressure hose coupling to output spline cavity pressure fill connector (see figure 301).
- (2) Slowly pressure fill output spline cavity until oil starts to flow from the overboard drainline.

NOTE The output spline cavity fill connector check valve requires an oil pressure of 20 to 25 psi to open.

- (3) Remove service hose.
- (4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.
- (5) Safety cap with lockwire.

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4. Service CSD Input and Output Spline Cavities

WARNING: JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES ON WHICH JET ENGINE OIL HAS BEEN SPILLED SHOULD BE CLEANED IMMEDIATELY.

CAUTION: USE ONLY RECOMMENDED, APPROVED JET ENGINE OIL WHEN SERVICING CSD TRANSMISSION INPUT AND OUTPUT SPLINE CAVITIES. SEE OIL SYSTEMS REPLENISHMENT CHART (12-02), GENERAL SERVICING) FOR RECOMMENDED APPROVED OIL.

A. Add Oil (CSD Input Spline Cavity)

- (1) Connect service pressure hose coupling to input spline cavity pressure fill connector (see Figure 301).
- (2) Using 25 to 40 psi oil fill pressure, slowly pressure fill input spline cavity until:
  - (a) On aircraft before incorp. of SB71-80, oil flows from engine drain mast.
  - (b) On aircraft with SB71-80 incorp., oil flows from uncapped end of Tee fitting on bottom of drain can.

NOTE: The input spline cavity fill-connector check valve requires an oil pressure of 20 to 25 psi to open.

- (3) Remove service hose.
- (4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.
- (5) Safety connector cap with lockwire.

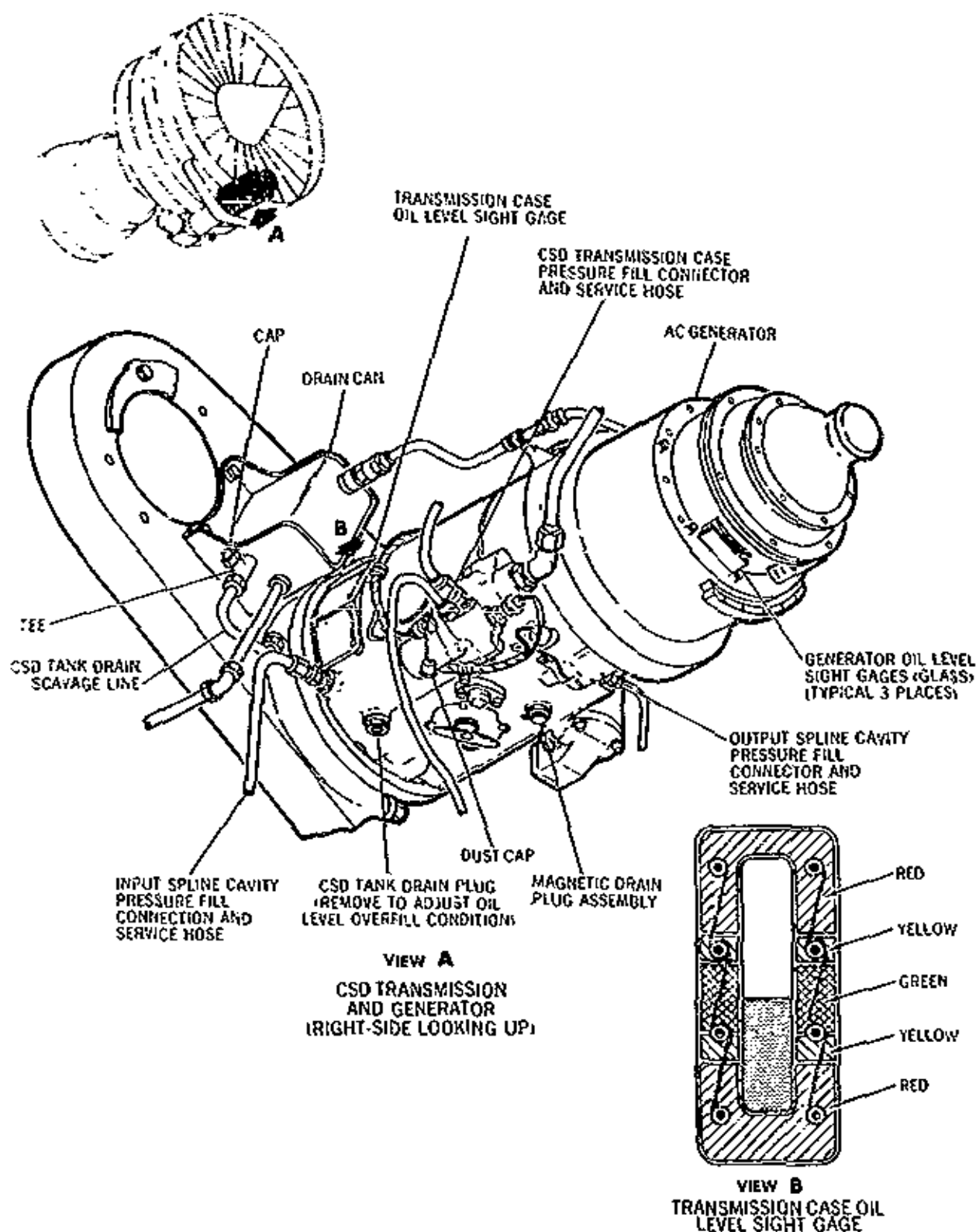
B. Add Oil (CSD Output Spline Cavity)

- (1) Connect service pressure hose coupling to output spline cavity pressure fill connector (see figure 301).
- (2) Slowly pressure fill output spline cavity until oil starts to flow from the overboard drainline.

NOTE: The output spline cavity fill connector check valve requires an oil pressure of 20 to 25 psi to open.

- (3) Remove service hose.
- (4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.
- (5) Safety cap with lockwire.

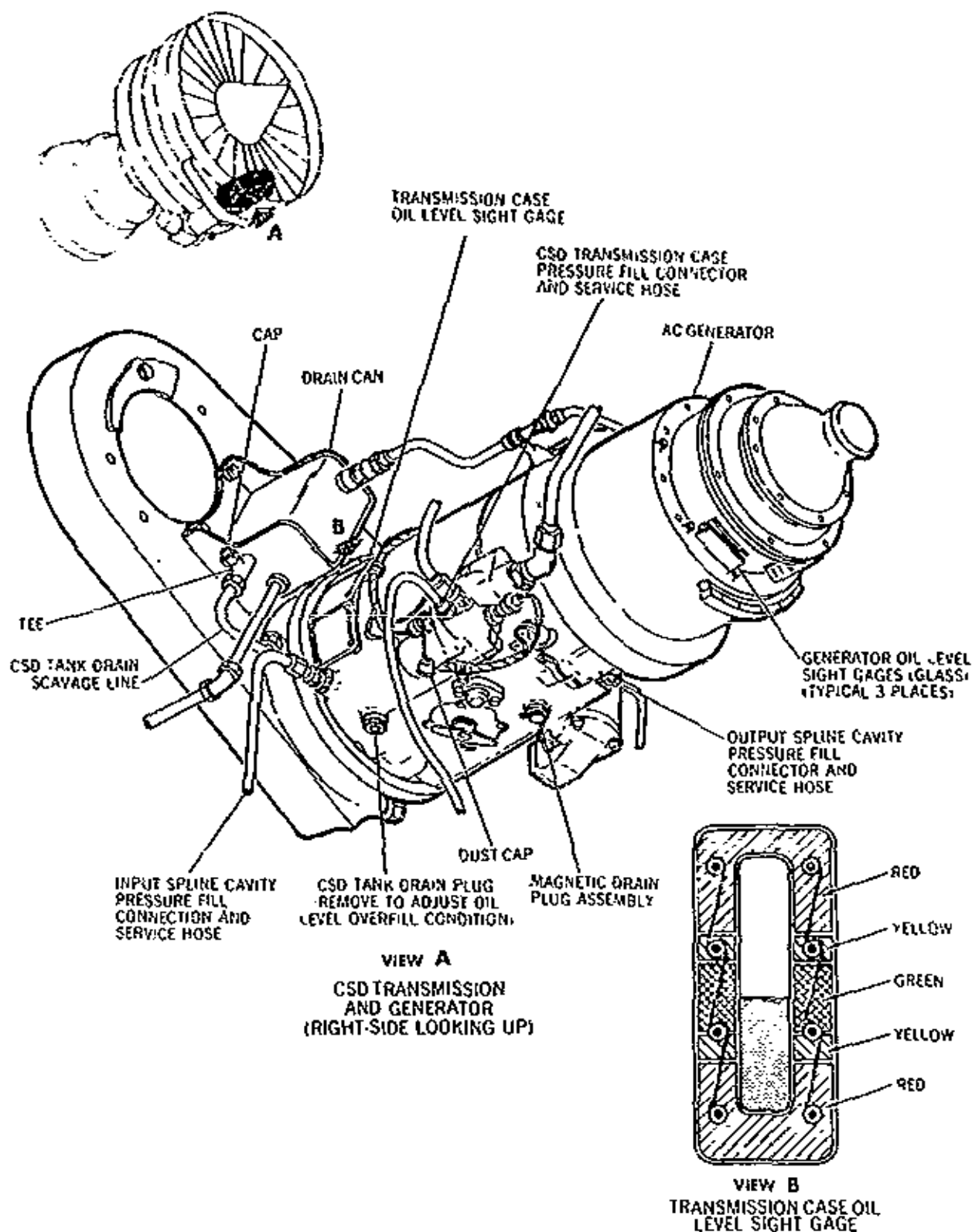
DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
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HA2-8950A

Constant Speed Drive (CSD) Transmission - Servicing  
 Figure 301

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**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL



HA2-8950A

Constant Speed Drive (CSD) Transmission - Servicing  
 (Aircraft With SB71-80 Incorp.)  
 Figure 301 (Sheet 1)

DOUGLAS AIRCRAFT CO., INC.  
**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

4. Service CSD Input and Output Spline Cavities

WARNING: JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES ON WHICH JET ENGINE OIL HAS BEEN SPILLED SHOULD BE CLEANED IMMEDIATELY.

CAUTION: USE ONLY RECOMMENDED, APPROVED JET ENGINE OIL WHEN SERVICING CSD TRANSMISSION INPUT AND OUTPUT SPLINE CAVITIES. SEE OIL SYSTEMS REPLENISHMENT CHART (12-02), GENERAL SERVICING) FOR RECOMMENDED APPROVED OIL.

A. Add Oil (CSD Input Spline Cavity)

(1) Connect service pressure hose coupling to input spline cavity pressure fill connector (see Figure 301).

R (2) Using 25 to 40 psi oil fill pressure, slowly pressure fill input spline  
R cavity until:

R (a) On aircraft before incorp. of S871-80, oil flows from engine drain  
R mast.

R (b) On aircraft with S871-80 incorp., oil flows from uncapped end of lee  
R fitting on bottom of drain can.

NOTE: The input spline cavity fill-connector check valve requires an oil pressure of 20 to 25 psi to open.

(3) Remove service hose.

(4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.

(5) Safety connector cap with lockwire.

B. Add Oil (CSD Output Spline Cavity)

(1) Connect service pressure hose coupling to output spline cavity pressure fill connector (see figure 301).

(2) Slowly pressure fill output spline cavity until oil starts to flow from the overboard drainline.

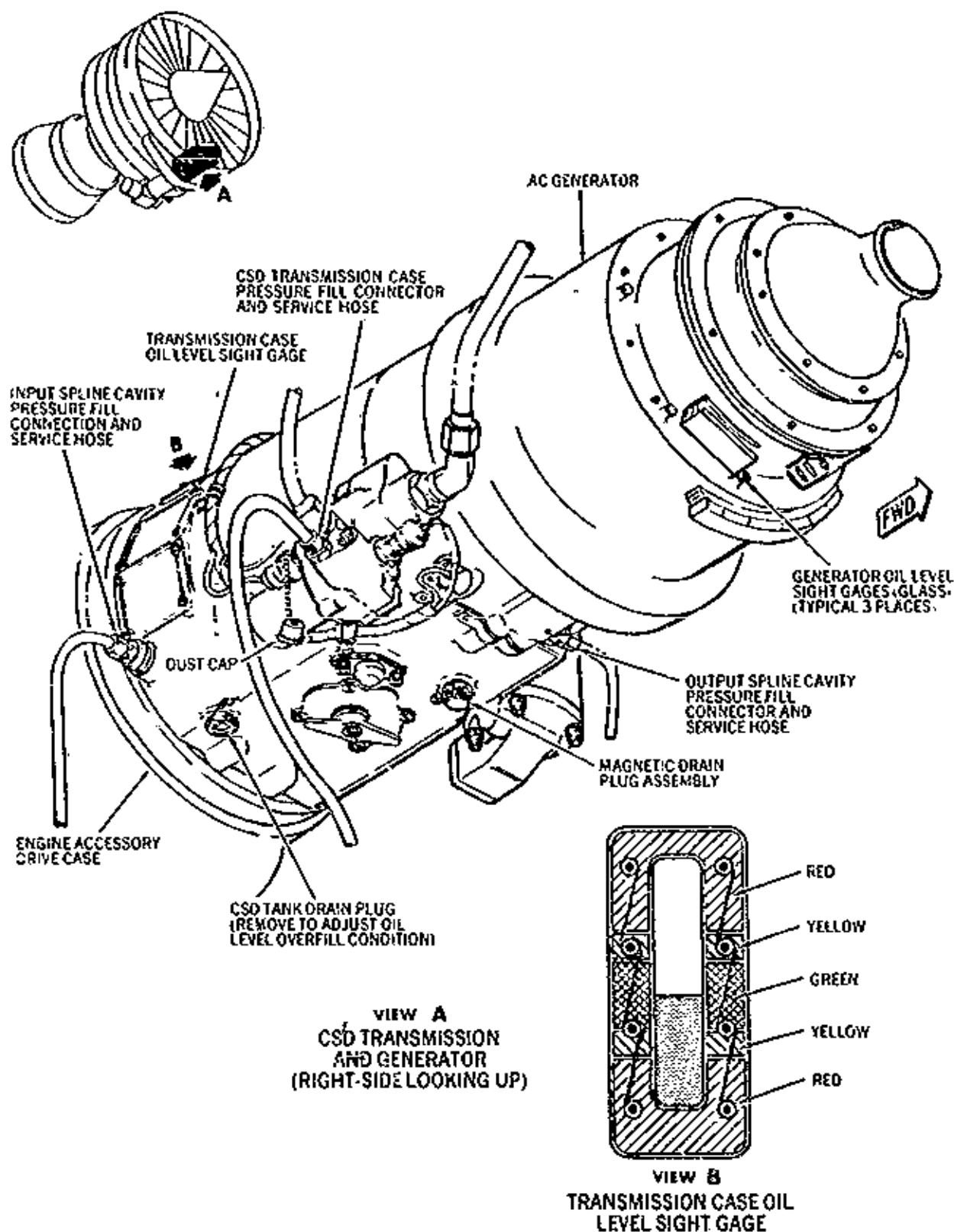
NOTE: The output spline cavity fill connector check valve requires an oil pressure of 20 to 25 psi to open.

(3) Remove service hose.

(4) Install connector cap; tighten cap to torque of 25 to 30 inch-pounds.

(5) Safety cap with lockwire.

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**DC-8 SEVENTY SERIES**  
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HA2-8836

Constant Speed Drive (CSD) Transmission - Servicing  
 (Aircraft Before Incorporation of SB71-80)  
 Figure 301 (Sheet 2)

12-20-3  
 CODE 50A  
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**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

AIR-CONDITIONING UNIT AIR CYCLE MACHINE - SERVICING

1. General

- A. The air-conditioning unit air cycle machines are located on the left and right air conditioning tunnels.
- B. The air cycle machine oil sump capacity and specifications are shown in the oil systems replenishment chart (See 12-02).

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items.

Item	Name	Number	Manufacturer	Use
A	Oil servicing unit or container-filling			Fill air cycle machine
B	Drain pan or container			Remove drained oil
C	Lockwire, .032 corrosion-resistant steel			Secure fill plug and drain plug
D	Scupper drain or funnel with suitable hose attached			Drain air cycle machine
	Packing	S90260111	Airesearch	Seal fill plug
	Packing	S90260110	Airesearch	Seal drain plug



DOUGLAS AIRCRAFT CO., INC.  
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3. Service Air Cycle Machine Cooling Turbines

WARNING: JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE.

WARNING: PAINTED SURFACES, ON WHICH JET ENGINE OIL HAS BEEN SPILLED, SHOULD BE CLEANED IMMEDIATELY.

CAUTION: USE ONLY APPROVED JET ENGINE OIL WHEN SERVICING COOLING TURBINES. DO NOT MIX TYPES OR NAME BRAND OILS.

A. Check Turbine Oil Level

- R (1) Remove filler plug. Oil level should be maintained at filler opening.

B. Add Oil

- R (1) Remove oil filler plug (see Figure 301).

- R (2) Fill turbine sump until oil begins to ooze out of filler opening.

NOTE: When necessary to use a different brand of oil than previously used, the oil system should be drained completely before the new oil is added.

- R (3) Install oil filler plug with new O-ring. Tighten and safety plug with .032 corrosion-resistant steel lockwire.

C. Drain Oil

- R (1) Remove oil filler plug and entire drain plug assembly using outer hex fitting; catch oil in drain pan.

- (2) Install drain plug assembly with new O-ring. Tighten and safety plug with .032 corrosion-resistant steel lockwire.

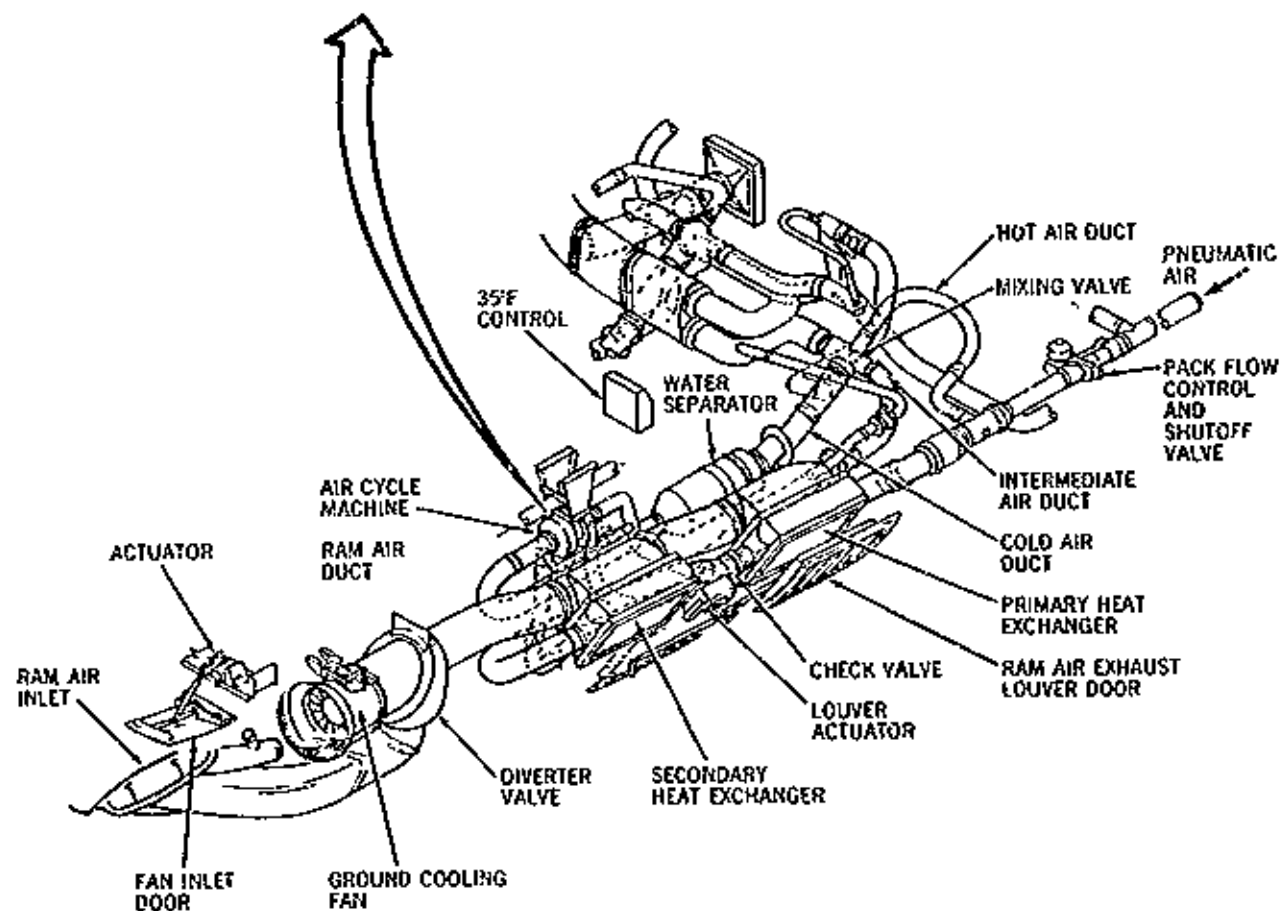
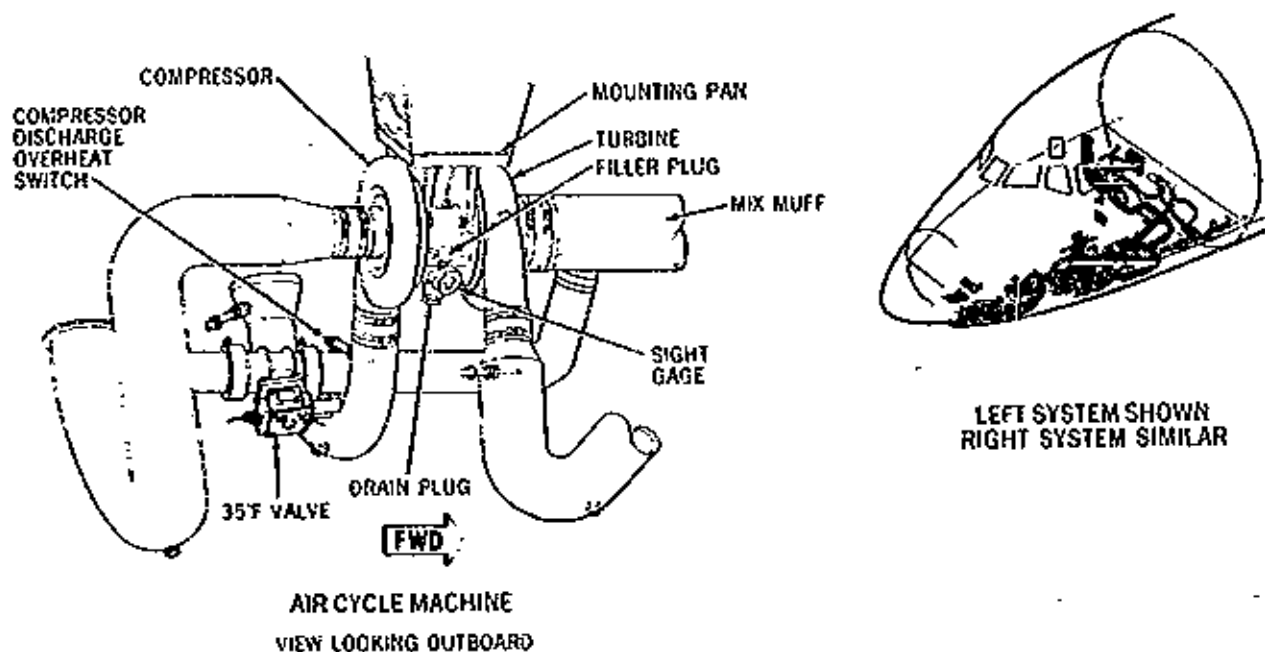
D. Fill Turbine Oil Sump

- R (1) Remove oil filler plug (see Figure 301).

- R (2) Fill turbine sump with new oil until oil begins to ooze out of filler opening.

- R (3) Install oil filler plug with new O-ring. Tighten and safety plug with .032 corrosion-resistant steel lockwire.

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**DC-8 SEVENTY SERIES**  
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HA2-8648A

Air Conditioning Unit Air Cycle Machine - Servicing  
 Figure 301

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**DC-8 SEVENTY SERIES**  
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AUXILIARY POWER UNIT (APU) - SERVICING

1. General

- A. The auxiliary power unit (APU) is located in the aft end of the forward cargo compartment. Access to APU oil tank servicing is through the forward cargo compartment aft door.
- B. The APU oil tank capacity and approved oil specifications are shown on the oil systems replenishment chart (see 12-02, Servicing).

2. Tools and Equipment Required

NOTE: Equivalent substitutes may be used instead of the following listed items:

Item	Name	Number	Manufacturer	Use
A	Oil servicing unit (pressure-type)		Commericolly available	Fill oil tank
B	Drain pan or container	2 US Gallons		Receive drained oil

3. Servicing Auxiliary Power Unit

WARNING: AVOID PHYSICAL CONTACT WITH APU WHEN UNIT IS HOT. JET ENGINE OIL MIGHT CAUSE SEVERE SKIN IRRITATION. WASH SKIN THOROUGHLY AFTER EXPOSURE. PAINTED SURFACES, ON WHICH JET ENGINE OIL HAS BEEN SPILLED, SHOULD BE CLEANED IMMEDIATELY.

CAUTION: USE ONLY APPROVED JET ENGINE OIL WHEN SERVICING AUXILIARY POWER UNIT. DO NOT MIX TYPES OR NAME BRANDS OF OILS.

A. Fill Oil Tank

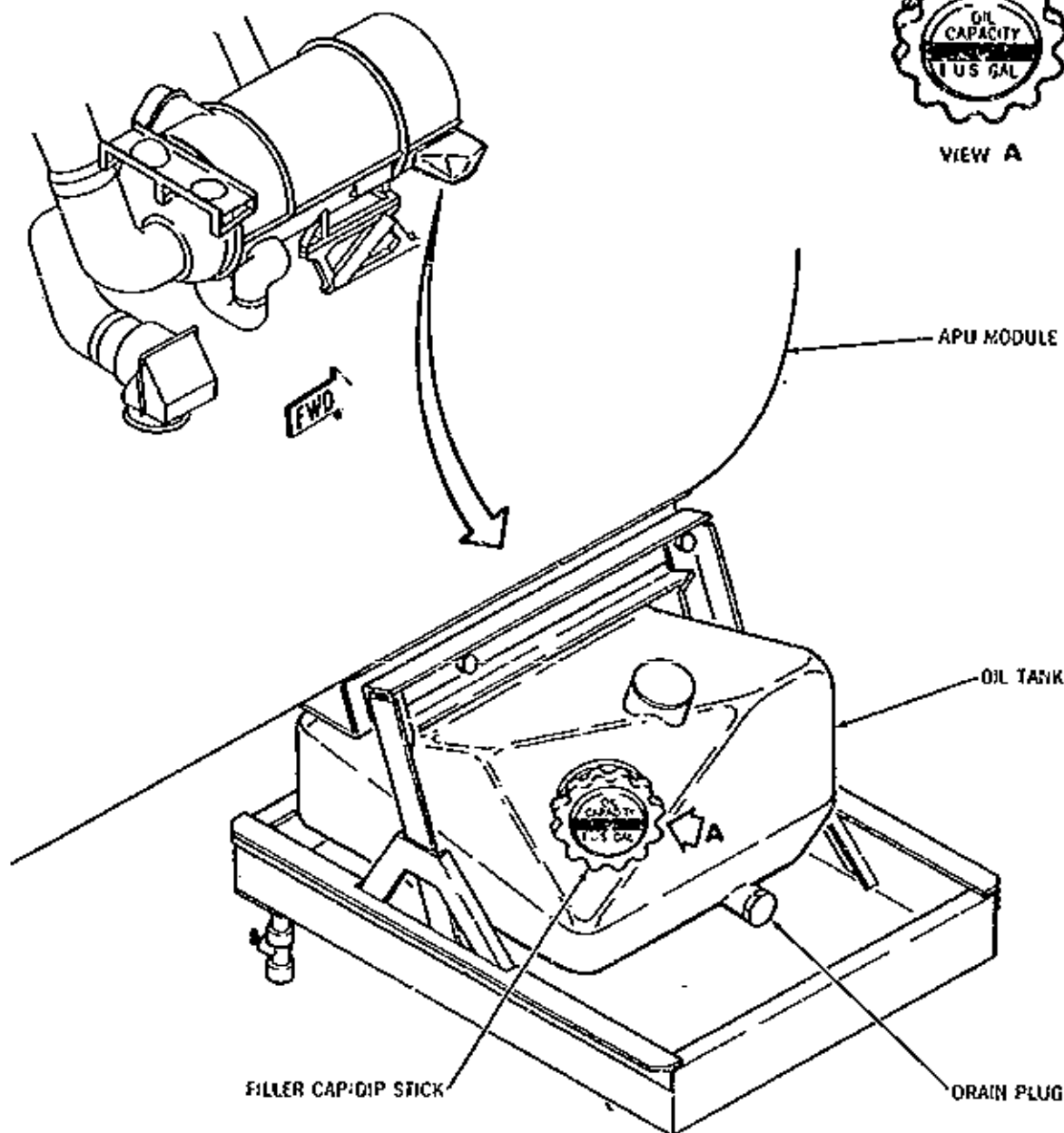
- (1) Remove oil tank filler cap (Ref. Figure 301).

CAUTION: DO NOT OVERFILL APU OIL TANK.

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VIEW A



**NOTE:**

LEFT APU SHOWN  
RIGHT APU IF  
INSTALLED; SIMILAR

HA2-8877

Auxiliary Power Unit (APU) -- Servicing  
Figure 301

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- (2) Fill oil tank with new oil to full mark on dipstick; allow time for oil level to drop as air is vented from tank. Continue to add oil until oil level remains at full mark.
- (3) Install filler cap. Line on cap must be horizontal.

CAUTION: MAKE CERTAIN FILLER CAP IS SECURE.

**B. Drain Oil Tank**

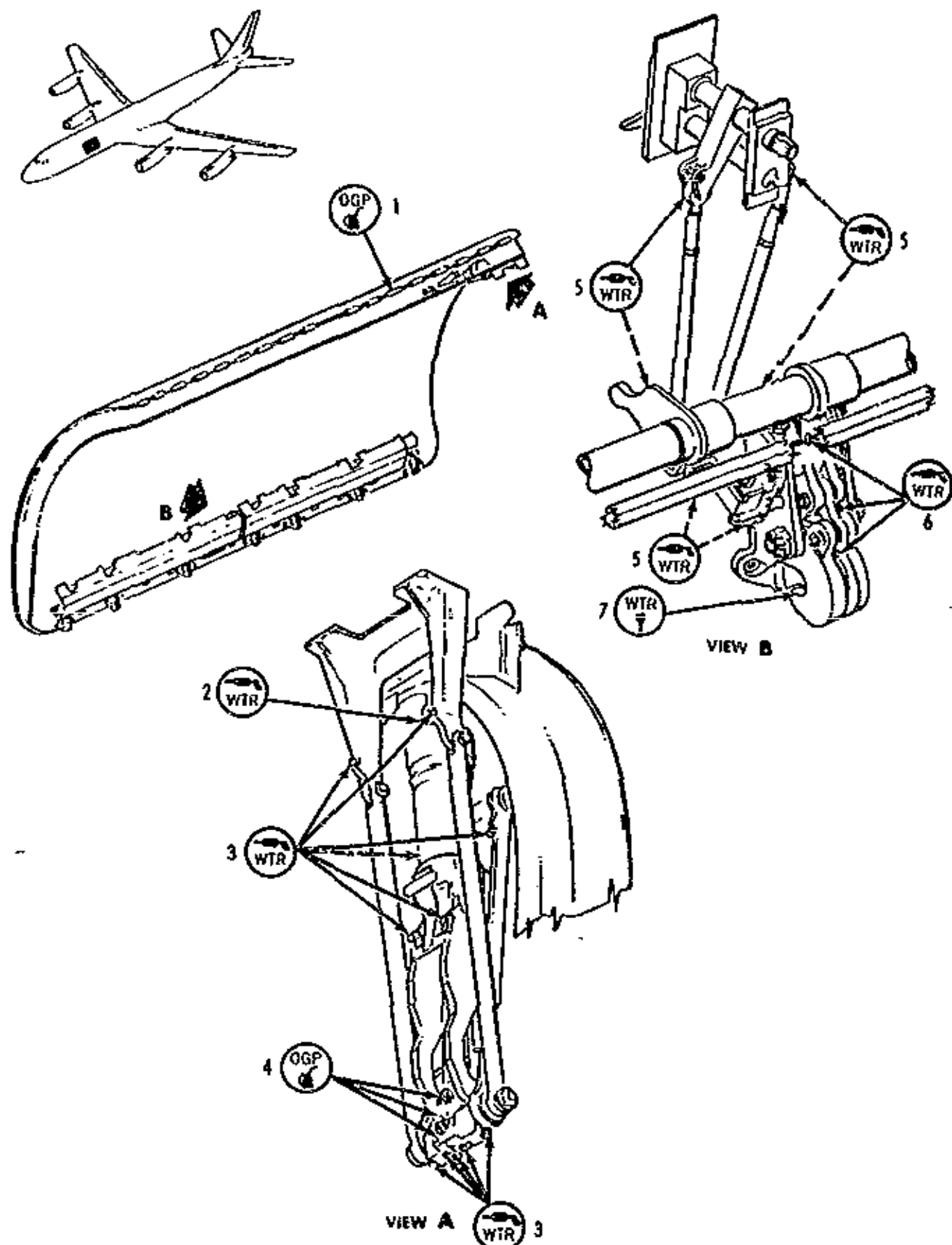
NOTE: Drain oil while engine is still hot from operation. If necessary, start and operate engine until oil reaches steady temperature, then shut down engine and proceed with oil change while oil is hot (see 49-00, Adjustment/Test).

- (1) Remove oil tank filler cap.

WARNING: AVOID PHYSICAL CONTACT WITH OIL WHEN APU ENGINE IS HOT. OIL TEMPERATURE CAN EXCEED 93°C (200°F).

- (2) Remove drain plug; allow oil to drain completely.
- (3) Install drain plug; tighten securely.
- (4) If oil tank is not to be filled at this time, install oil tank filler cap to prevent contamination of tank and/or system.

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Upper Cargo Door - Lubrication  
 Figure 301 (Sheet 1)

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SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
*1	Door Hinge	DGP	Oil Can	1
2	Actuating Cylinder Attach Point	WTR	Gun	1F
3	Linkage	WTR	Gun	11
	Lock Assembly	DGP	Oil Can	3
	Rod Ends	WRT	Gun	6F
	Door Latches	WRT	Gun	21
**7	Hook	WTR	Brush	7

\*Oil lightly and wipe off excess.

\*\*Apply light coat of grease to striking surface.

WF Grease - Wide Temperature Range - MIL-G-81322

OL - Oil - General Purpose Corrosion Preventative - VV-L-800

Frequency Interval Recommended - On Condition

Upper Cargo Door - Lubrication  
 Figure 301 (Sheet 2)

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MAINTENANCE MANUAL

SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1*	Engine forward mount bolts and bushings	MS	Brush	
2*	Engine aft mount bolts and bushings	MS	Brush	

\* Apply coat of oil to shank and threads. After installation, coat entire nut-bolt assembly with oil for corrosion prevention.

NOTE: Oil should be thoroughly stirred before applying.

MS oil - Moly silicone - MIL-L-25681.

For lubrication frequency interval recommendation, see 12-80-0, General Servicing.

Engine Mount -- Lubrication  
Figure 301 (Sheet 2)



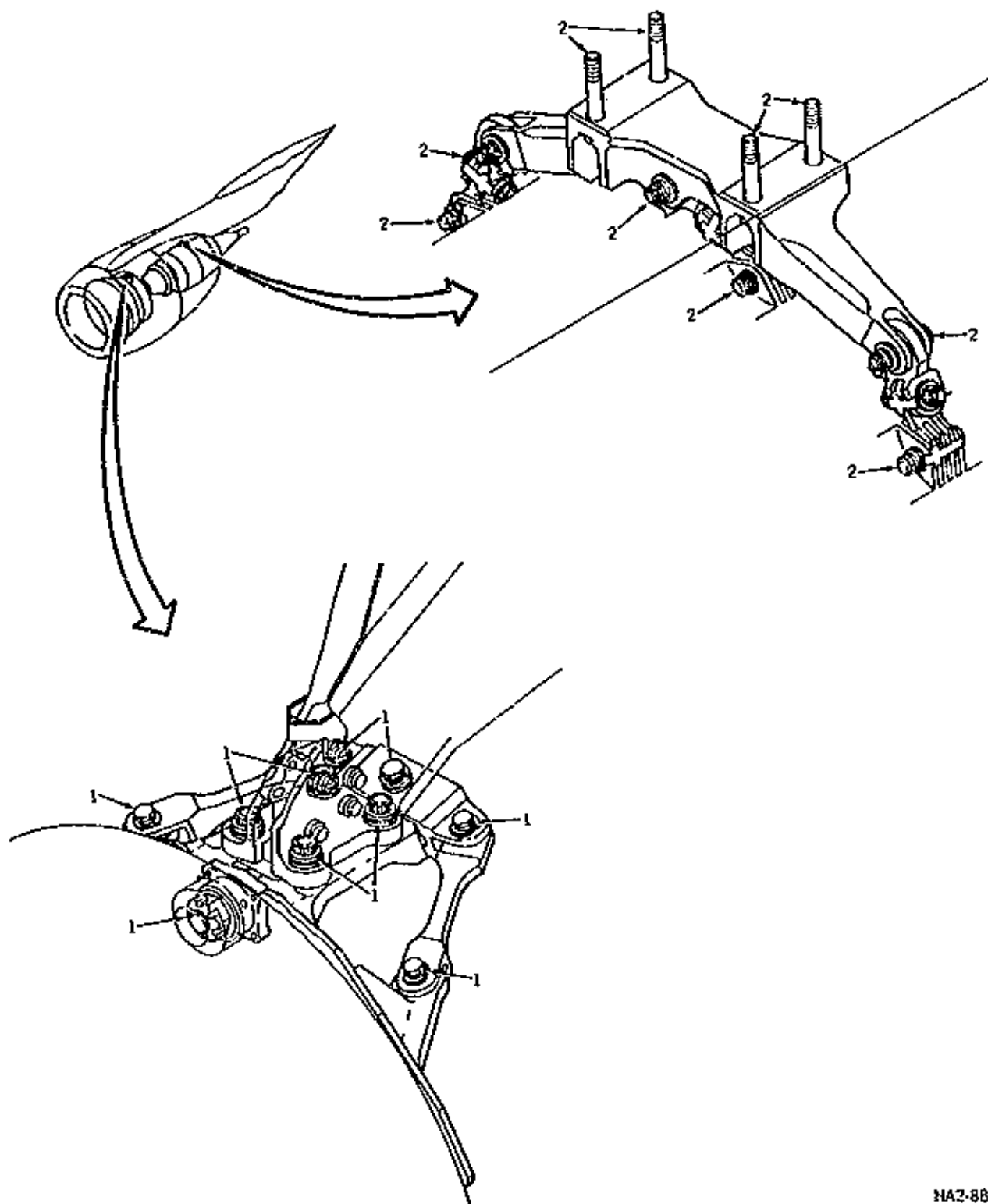
DOUGLAS AIRCRAFT CO., INC.  
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POWER PLANT - LUBRICATION

1. General

- A. It is recommended that the airplane be secured in an area suitable for lubrication servicing. The area should be free of sand, dirt, dust, and other environmental conditions that might contribute to improper servicing.
- B. Observe power plant maintenance practices safety precautions before and during lubrication servicing as outlined in the engine chapters.
- C. The recommended lubrication servicing equipment should include grease guns, oil cans, brushes, clean cloths, and other facilities as required for proper lubrication.

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Engine Mount -- Lubrication  
Figure 301 (Sheet 1)

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 MAINTENANCE MANUAL

SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1*	Cowl door hinge pins	OGP	Oilcan - brush	3 (each cowl door)
2*	Cowl door latch mechanism	OGP	Oilcan - brush	3 (each left door)

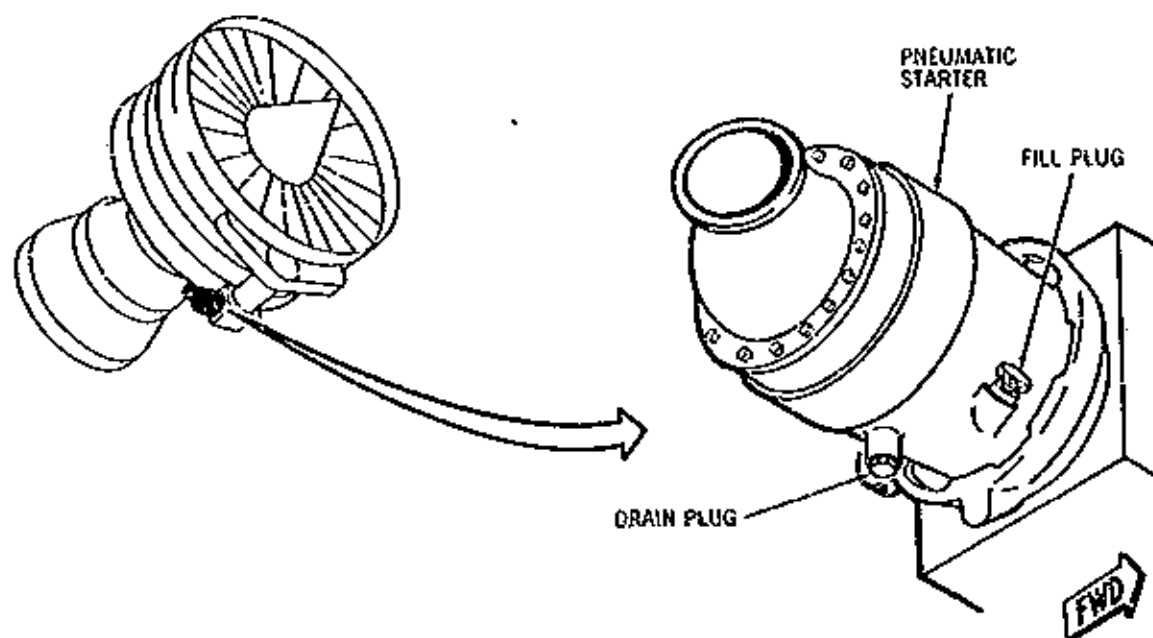
\* Oil lightly and wipe off excess

OGP oil - General purpose

For lubrication frequency interval recommendation, see 12-80-0, General Servicing.

Engine Cowl Doors -- Lubrication  
 Figure 302 (Sheet 2)

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HA2-8378

Engine Pneumatic Starter -- Lubrication  
Figure 303 (Sheet 1)

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SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1* 1**	Starter oil sump	OJE	Pump-type oilcan or service unit dispenser	4
2***	Starter drive splines	GMD	Brush	-

\* Fill to bottom of fill port threads. Oil capacity is approximately 570 cubic centimeters (19.27 fluid ounces). Install new packing on fill plug. Install fill plug; tighten plug to torque of 220 to 240 inch-pounds. Safety plug with lockwire.

\*\* To drain, remove fill port and drain plugs; allow starter to drain completely. Inspect/check oil and magnetic drain plugs for metal particles. (Fine metal particles indicate normal wear, larger particles indicate internal component damage.) Clean drain plug; install and tighten plug to torque of 65 to 85 inch-pounds. Safety drain plug with lockwire. Install fill plug as noted above.

CAUTION: DO NOT OVERFILL STARTER HOUSING.

\*\*\* Apply coat of grease to drive splines.

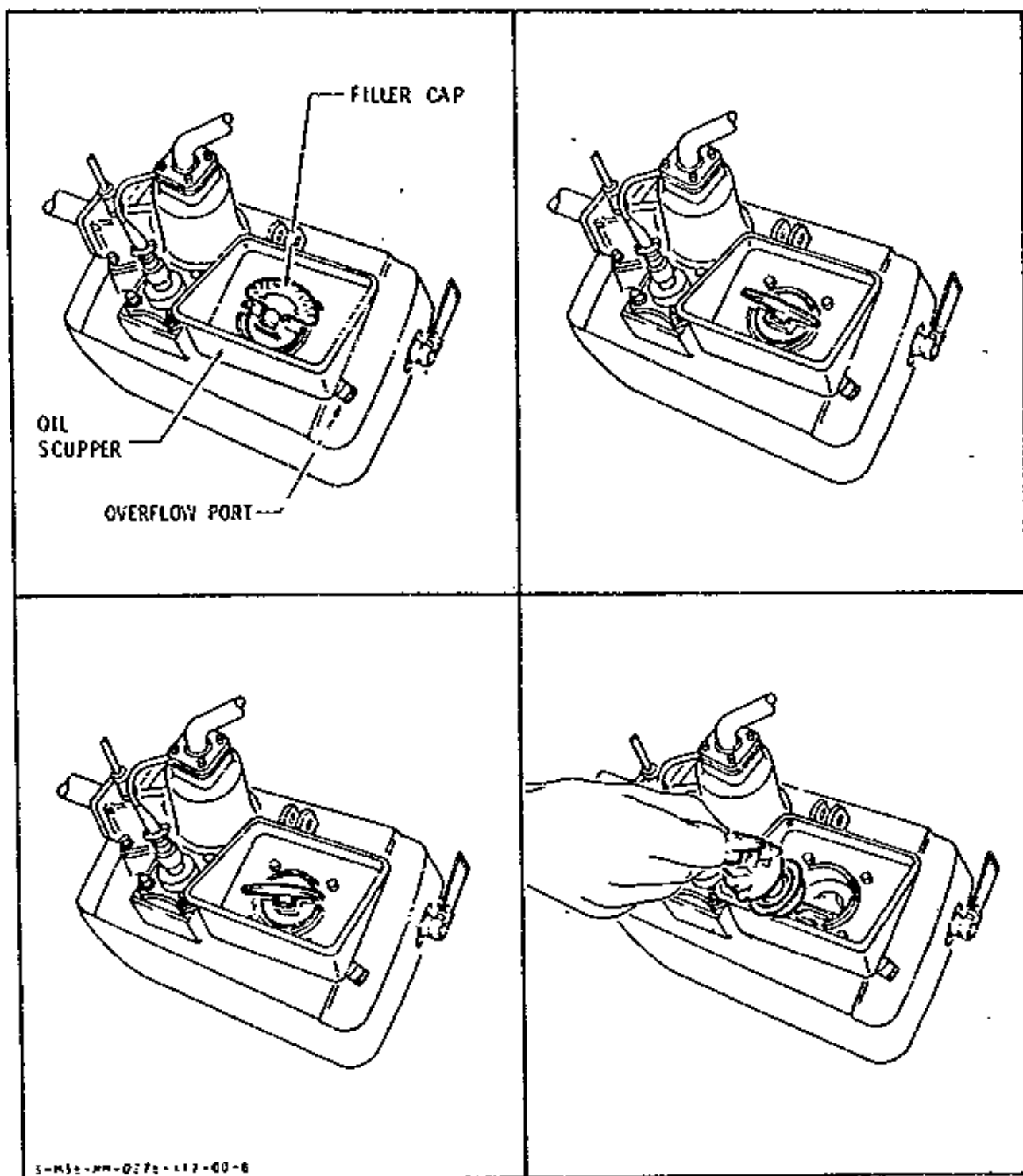
R OJE oil - Jet engine (General Electric specification D50TF1, as revised)

GMD grease - Aeroshell 17 (or equivalent)

For lubrication frequency interval recommendation, see 12-80-0, General Servicing.

Engine Pneumatic Starter -- Lubrication  
 Figure 303 (Sheet 2)

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Engine Oil System -- Lubrication  
 Figure 30A (Sheet 1)

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**DC-8 SEVENTY SERIES**  
MAINTENANCE MANUAL

SERVICE CHART - RECOMMENDED LUBRICATION

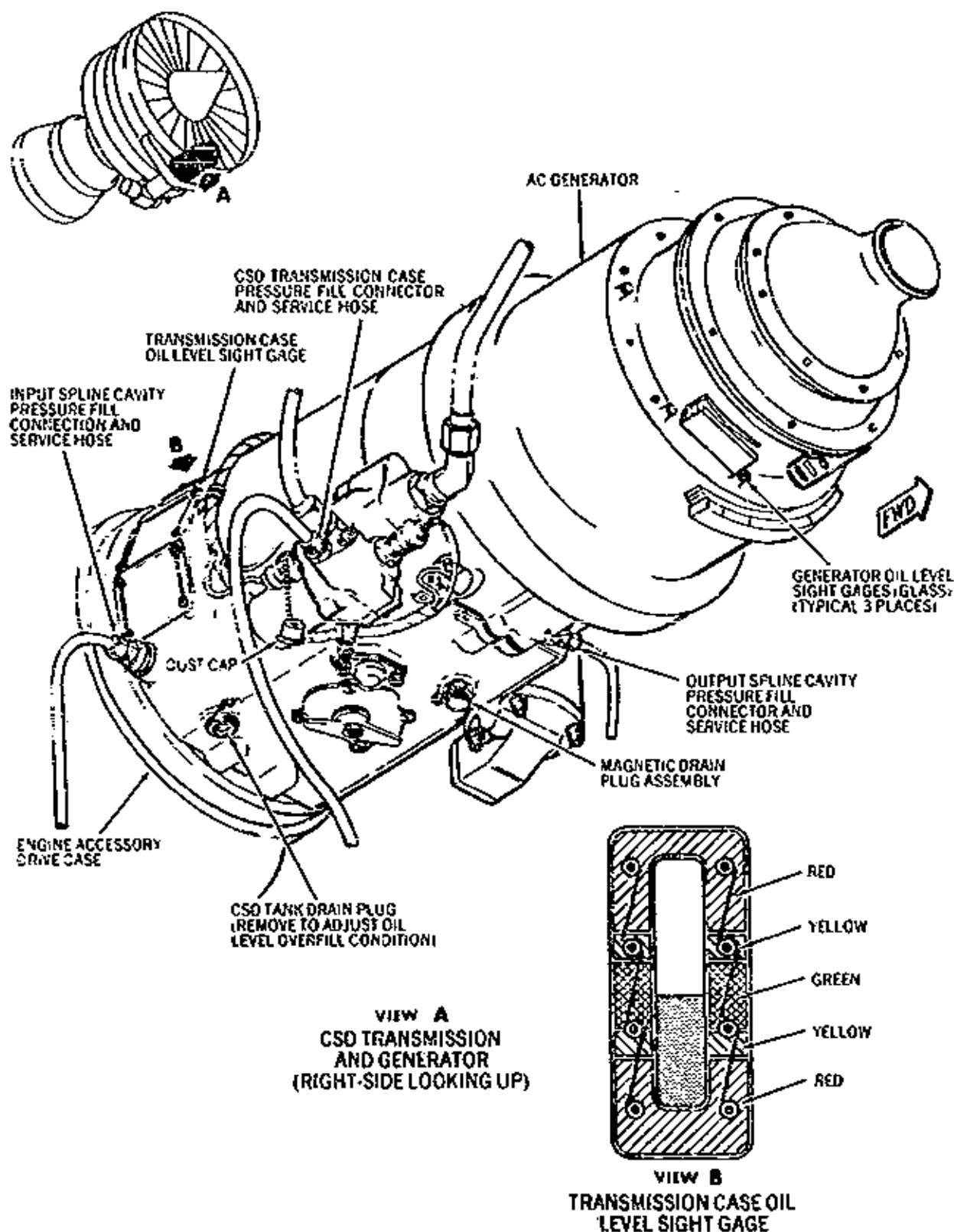
ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1*	Engine oil tank	OJE	can or dispenser	4

\* See engine oil system servicing procedures, 12-20-1.

R OJE oil - Jet engine (General Electric specification D50IF1, as revised)  
For lubrication frequency interval recommendation, see 12-80-0, General-Servicing.

Engine Oil System -- Lubrication  
Figure 30a (Sheet 2)

DOUGLAS AIRCRAFT CO., INC.  
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HA2-8836

Constant Speed Drive (CSD) Transmission -- Lubrication  
 Figure 305 (Sheet 1)



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**DC-8 SEVENTY SERIES**  
 MAINTENANCE MANUAL

SERVICE CHART - RECOMMENDED LUBRICATION

ITEM NO.	ITEM DESCRIPTION	LUBE TYPE	APPLICATION	NUMBER OF FITTINGS OR AREAS
1*	Input spline cavity pressure-fill connection	OJE	Pressure service cart	-
2**	CSO transmission case pressure-fill connection	OJE	Pressure service cart	-
3***	Output spline cavity pressure-fill connection	OJE	Pressure service cart	-

\* Input spline cavity - To fill: Remove input spline cavity overfill standpipe drain cap. Connect service hose to input cavity pressure-fill connector. Slowly fill cavity (25 to 40 psi pressure) until oil flows from engine drain mast. Install pressure-fill connector cap; tighten cap to torque of 25 to 30 inch-pounds. Safety cap with lockwire. To drain: Remove input cavity drain plug assembly; allow cavity to drain thoroughly. Install drain plug; tighten plug to torque of 30 to 50 inch-pounds. Safety plug with lockwire.

\*\* Transmission case - Check sight gage at preflight. To add oil: Connect pressure service hose to case pressure-fill connector. Slowly fill transmission oil system (25 to 30 psi oil fill pressure) until oil appears in green area of sight gage glass. Stop oil flow; wait approximately 3 minutes for oil level to stabilize. Check oil level gage; add or drain as required to obtain visual indication of oil level within green area on gage. Remove service hose.

**CAUTION:** DO NOT OVERFILL TRANSMISSION CASE. OVERFILLING CAN CAUSE OVERHEATING AND OIL SLUDGING, RESULTING IN DRIVE DAMAGE.

If drain plug is removed to adjust oil level, install new gasket (MS17413-112, o-ring) on drain plug. Install plug; tighten plug to torque of 75 to 100 inch-pounds. Safety plug with lockwire.

For oil change and/or filter replacement, see Chapter 24.

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**DC-8 SEVENTY SERIES**  
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SERVICE CHART - RECOMMENDED LUBRICATION

- \*\*\* Output spline cavity - Check generator sight gages at preflight. To fill: Connect service hose to output spline cavity pressure-fill connector. Slowly fill cavity (25 to 40 psi pressure) until oil starts to flow from overboard drainline. Install pressure-fill connector cap; tighten cap to torque of 25 to 30 inch-pounds. Safety cap with lockwire. To drain: Remove pressure-fill connector check valve. Allow cavity to drain thoroughly. Install check valve; tighten valve to torque of 30 to 50 inch-pounds. Install cap; tighten cap to torque of 25 to 30 inch-pounds. Safety cap with lockwire.

NOTE: The output spline cavity serves as an oil reservoir for the generator lubrication system. The generators are self lubricated and do not require lubrication servicing other than maintaining an adequate oil supply in the output spline cavity.

03E oil - Jet engine (Sundstrand specification MS 02.40, as revised)

For lubrication frequency interval recommendation, see 12-80-0, General-Servicing.

Constant Speed Drive (CSD) Transmission -- Lubrication  
Figure 305 (Sheet 3)